

CASHMAN

HOLLYWOOD CONSTRUCTION
2223 WELSEY MANOR DR
LAS VEGAS NV NV 89156

THIS IS NOT AN INVOICE

PROFORMA

INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER
		115650
AMOUNT		
CONT'D		

INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE
				115650				71	G	735	2	1
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA				INV. SEQ. NUMBER	
LH98504		02-04-22		10	10	10					1	
MAKE	MODEL		SERIAL NUMBER				EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER	
AA	982M		0K1Y00439						5456.0			
QUANTITY	ITEM			N/R	DESCRIPTION				UNIT PRICE		EXTENSION	
				* * *	PROFORMA INVOICE				* * *			
	INSPECT MACHINE											
1	WWS PLUS32				WINDSHIELD WHR FLDS				3.60		3.60	
					TOTAL PARTS				SEG. 00		3.60 *	
									F/R LBR		324.00 *	
					SEGMENT 00 TOTAL						327.60 T	

	PERFORM PM 4											
2	1R-0749				FILTER AS-FUEL				F/R PTS		2789.79 *	
2	1U-9891				ADDITIVE							
1	5K-1787				SEAL O RING							
1	326-4689				ELEMENT-OCV							
1	331-8111				ELEMENT-SEC							
1	346-8340				ELEMENT-BREATHER							
1	369-7506				KIT- SEAL							
1	376-1288				ELEMENT-HYD							
1	423-8524				FILTER GP-FUEL							
1	436-3443				ELEMENT AS-HYD							
1	571-5253				ELEMENT AS-X							
1	577-1436				ELEMENT-ACL							

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2223 WELSEY MANOR DR
LAS VEGAS NV NV 89156

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NET 10TH OF THE MONTH FOLLOWING INVOICE DATE. A 1 1/2% PER MONTH
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QUANTITY	ITEM			N/R	DESCRIPTION			UNIT PRICE		EXTENSION		
				* *	PROFORMA INVOICE			* * *				
45	RT50LTBULK				50W LUBE TRUCK S							
20	8T9571LT				30W TDTO LUBE TRK S							
1	CA1				B.COOLANT ANALYSIS							
5	0A1				BASIC OIL ANALYSIS							
4	0A1P				BASIC OIL W/PROBE S							
1.00					PM SUPPORT			F/R LBR		1260.00 *		
					TOTAL OTHR CHGS			SEG. 01		150.00 *		
					SEGMENT 01 TOTAL					4199.79 T		

REMOVE & INSTALL HANDLE VALVE LEVER												
REMOVE JOYSTICK CTICK AND INSTALL 2 LEVER 503-6401												
KIT. AND INSTALL NEW CONFIG FILES. REFERENCE												
M0064866												
2	0A-4664				CLAMP **NSFN			6.71		13.42		
3	3E-4352				WASHER S			.47		1.41		
11	3S-2093				TIE S			.24		2.64		
1	5C-7261				NUT S			.25		.25		
1	6F-0253				LOCK WASHER S			.18		.18		
1	6V-3987				M SEAL STK N			4.62		4.62		
4	7C-4354				CLIP S			6.63		26.52		
								PLEASE PAY THIS AMOUNT		CONT'D		
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QUANTITY	ITEM			N/R	DESCRIPTION			UNIT PRICE		EXTENSION		
				* * *	PROFORMA INVOICE			* * *				
7	7K-1181				TIE S			.42	2.94			
1	7X-0578				WASHER S			1.06	1.06			
1	8R-3695				GROMMET **NSFN			5.50	5.50			
1	8T-4197				BOLT S			.55	.55			
6	8T-4224				WASHER-HARD S			.39	2.34			
4	8T-4908				BOLT S			.49	1.96			
2	8T-8737				PLUG S			.42	.84			
9	9X-2043				SCREW S			1.04	9.36			
1	9X-2044				SCREW S			1.04	1.04			
11	9X-2045				SCREW S			1.16	12.76			
5	127-2170				SCREW TRUSS S			2.63	13.15			
2	132-5789				CLIP S			6.71	13.42			
4	172-8591				U-NUT S			.65	2.60			
1	189-2077				FILM CONTROL **NSFN			8.13	8.13			
1	189-2078				FILM CONTROL **NSFN			8.13	8.13			
1	189-2079				FILM CONTROL **NSFN			8.18	8.18			
1	201-1531				FILM AUTO **NSFN			12.50	12.50			
2	228-6089				PLUG-ROCKER N			1.77	3.54			
1	230-4009				PLUG AS-CONN S			13.60	13.60			
1	230-4011				PLUG AS-CONN S			6.50	6.50			
1	239-7352				PLUG AS-CONN S			5.83	5.83			
1	253-8798				KNOB **NSFN			8.34	8.34			
1	268-6497				FILM-LOADER S			12.46	12.46			
1	275-6530				FILM-CONTROL **NSFN			12.73	12.73			
1	280-9440				CUSHION AS S			37.68	37.68			
1	282-6686				COVER **NSFN			35.54	35.54			
1	283-8171				BRACKET **NSFN			91.03	91.03			

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MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER		
AA	982M		0K1Y00439					5456.0				
QUANTITY	ITEM		N/R	DESCRIPTION			UNIT PRICE		EXTENSION			
			* * *	PROFORMA INVOICE			* * *					
1	284-3623			SWITCH AS. S			34.18		34.18			
1	287-0569			CLIP **NSFN			2.41		2.41			
1	290-1262			CUSHION AS **NSFN			43.45		43.45			
1	290-1264			COVER **NSFN			37.16		37.16			
4	332-2155			SWITCH AS S			106.52		426.08			
2	361-6015			CONT GP-HAND S			407.07		814.14			
1	449-4002			FILM-RIGHT P **NSFN			7.93		7.93			
1	450-5070			FILM-CONTROL **NSFN			7.91		7.91			
1	495-0890			BRACKET AS **NSFN			197.08		197.08			
1	495-6231			HARNESS AS **NSFN			715.15		715.15			
				TOTAL PARTS			SEG. 02		2666.24 *			
							F/R LBR		2170.00 *			
1.00				CAP AIR					37.61			
				TOTAL OTHR CHGS			SEG. 02		37.61 *			
				SEGMENT 02 TOTAL					4873.85 T			

TROUBLESHOOT PAYLOAD MONITOR SYSTEM												
							F/R LBR		310.00 *			
				SEGMENT 03 TOTAL					310.00 T			

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MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER		
AA	982M		0K1Y00439					5456.0				
QUANTITY	ITEM			N/R	DESCRIPTION			UNIT PRICE		EXTENSION		
				* * *	PROFORMA INVOICE			* * *				
	TROUBLESHOOT CAMERA											
					SEGMENT 04 TOTAL			F/R LBR		620.00 *		
										620.00 T		

	REPLACE BACK-UP ALARM											
1	213-9100				ALARM AS-BACK S			184.42		184.42		
					TOTAL PARTS			SEG. 05		184.42 *		
					SEGMENT 05 TOTAL			F/R LBR		155.00 *		
										339.42 T		

	REPLACE WINDOW/GLASS REAR											
	1.00				LABOR					230.40		
	1.00				PARTS					290.88		
					TOTAL OTHR CHGS			SEG. 06		521.28 *		
								PLEASE PAY THIS AMOUNT AMOUNT CREDITED		CONT'D		
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PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA			INV. SEQ. NUMBER		
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MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER		
AA	982M		0K1Y00439					5456.0				
QUANTITY	ITEM		N/R	DESCRIPTION				UNIT PRICE		EXTENSION		
			* * *	PROFORMA INVOICE				* * *				
				SEGMENT 06 TOTAL						521.28 T		

	REPLACE MIRROR LEFT											
1	372-8076			MIRROR AS S				228.19		228.19		
				TOTAL PARTS SEG. 07						228.19 *		
				SEGMENT 07 TOTAL F/R LBR						310.00 *		
										538.19 T		

	TROUBLESHOOT AIR CONDITIONER											
				SEGMENT 08 TOTAL F/R LBR						775.00 *		
										775.00 T		

	REPAIR AIR CONDITIONER											
7	7K-1181			TIE S				.42		2.94		
2	9M-7959			CLAMP S				5.63		11.26		
								PLEASE PAY THIS AMOUNT AMOUNT CREDITED		CONT'D		
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PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA			INV. SEQ. NUMBER			
LH98504		02-04-22		10	10	10				1			
MAKE	MODEL		SERIAL NUMBER				EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER		
AA	982M		0K1Y00439						5456.0				
QUANTITY	ITEM			N/R	DESCRIPTION				UNIT PRICE		EXTENSION		
				* * *	PROFORMA INVOICE				* * *				
6	9X-7378				SEAL	S		1.90		11.40			
6	9X-7383				SEAL-O-RING	S		2.25		13.50			
6	9X-7384				SEAL-O-RING	S		2.78		16.68			
1	290-2287				FILTER AIR	S		60.55		60.55			
1	290-2288				FILTER - AIR	S		47.48		47.48			
4	327-0282				SEAL-INTEGRAL	S		10.48		41.92			
3	327-0283				SEAL-INTEGRA	S		10.53		31.59			
1	334-2578				CORE AS-COND	S		998.59		998.59			
1	355-1793				DRYER	S		189.87		189.87			
					TOTAL PARTS		SEG. 09				1425.78 *		
							F/R LBR				1240.00 *		
					SEGMENT 09 TOTAL						2665.78 T		

TROUBLESHOOT PARKING BRAKE								F/R LBR				620.00 *	
					SEGMENT 10 TOTAL						620.00 T		

REPAIR PARKING BRAKE								F/R LBR				155.00 *	
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QUANTITY	ITEM		N/R	DESCRIPTION				UNIT PRICE		EXTENSION		
			* * *	PROFORMA INVOICE				* * *				
				SEGMENT 11 TOTAL						155.00 T		

	TROUBLESHOOT RIDE CONTROL SYSTEM											
				SEGMENT 12 TOTAL				F/R LBR		620.00 *		
										620.00 T		

	TROUBLESHOOT LIGHT(S)											
4	113-8491			FUSE-MINI 15A				1.19		4.76		
2	248-2841			RELAY AS				44.49		88.98		
				TOTAL PARTS				SEG. 13		93.74 *		
				SEGMENT 13 TOTAL				F/R LBR		620.00 *		
										713.74 T		

	REPLACE BUCKET WEAR PLATE											
8	2J-3506			NUT				1.44		11.52		
8	5J-4773			BOLT				1.84		14.72		
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				* * *	PROFORMA INVOICE			* * *				
8	5P-8248				WASHER			S	1.40	11.20		
2	109-9215				PLATE-WEAR			S	253.68	507.36		
					TOTAL PARTS			SEG. 14		544.80 *		
					SEGMENT 14 TOTAL			F/R LBR		620.00 *		
										1164.80 T		

REPLACE AUTO LUBRICATION SYSTEM												
2	177-3518				DOSER			**NSFN	74.57	149.14		
2	178-2736				COUPLING			**NSFN	7.24	14.48		
2	178-2740				DOSER			**NSFN	74.57	149.14		
6	178-2746				DOSER			S	74.57	447.42		
2	179-1660				PLUG			**NSFN	1.92	3.84		
2	192-5987				GASKET			**NSFN	.30	.60		
1	192-6212				DOSER NO. 10			**NSFN	177.51	177.51		
1	196-1047				COVER GP			N	49.65	49.65		
1	196-1049				GUIDE ROD			**NSFN	33.32	33.32		
1	196-1056				SEAL			S	3.51	3.51		
1	268-1623				CONNECTOR			**NSFS	3.25	3.25		
1	323-6853				UNIT-METERIN			**NSFN	111.76	111.76		
1	355-2265				RESERVOIR AS			S	278.90	278.90		
2	389-4161				DOSER 8			**NSFN	78.11	156.22		
1	471-3702				SLEEVE			**NSFS	.93	.93		
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LH98504		02-04-22		10	10	10				1				
MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER				
AA	982M		0K1Y00439					5456.0						
QUANTITY	ITEM		N/R	DESCRIPTION				UNIT PRICE		EXTENSION				
1	3894170		* *	PROFORMA INVOICE				* * *						
				USED VALVE N				375.00		375.00				
				TOTAL PARTS SEG. 15						1954.67 *				
				SEGMENT 15 TOTAL F/R LBR						4650.00 *				
										6604.67 T				

	TROUBLESHOOT FAULT CODE													
				SEGMENT 16 TOTAL F/R LBR						620.00 *				
										620.00 T				

	TROUBLESHOOT ENGINE HOOD													
				SEGMENT 17 TOTAL F/R LBR						155.00 *				
										155.00 T				

	TROUBLESHOOT HYDRAULIC HOSES/LINES FOR LEAKS													
								PLEASE PAY THIS AMOUNT AMOUNT CREDITED		CONT'D				

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SHIP TO/REFERENCE:**TERMS:**

NET 10TH OF THE MONTH FOLLOWING INVOICE DATE. A 1 1/2% PER MONTH LATE CHARGE WILL BE ASSESSED ON PAST DUE INVOICES.

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INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER
		115650
AMOUNT		
CONT'D		

INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER			CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE
				115650					71	G	735	2	11
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA			INV. SEQ. NUMBER			
LH98504		02-04-22		10	10	10				1			
MAKE	MODEL		SERIAL NUMBER				EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER		
AA	982M		0K1Y00439						5456.0				
QUANTITY	ITEM			N/R	DESCRIPTION				UNIT PRICE		EXTENSION		
				* * *	PROFORMA INVOICE				* * *				
					SEGMENT 18 TOTAL				F/R LBR		620.00 *		
											620.00 T		

	TROUBLESHOOT ENGINE OIL FOR LEAKS												
					SEGMENT 19 TOTAL				F/R LBR		620.00 *		
											620.00 T		

	REPAIR IMPLEMENT PUMP												
1	1P-3703				SEAL				2.45		2.45		
1	1P-3705				SEAL				3.23		3.23		
2	6V-9746				SEAL-O-RING				1.34		2.68		
2	7S-8920				CLIP				10.17		20.34		
2	7S-8921				CLIP				8.92		17.84		
2	7X-7729				WASHER-HARD				.92		1.84		
2	8T-4136				BOLT				.67		1.34		
2	200-6345				MOUNT-SWIVEL				5.81		11.62		
8	204-2281				TIE-WRAP				1.89		15.12		
1	389-4383				HOSE AS.				90.99		90.99		
					TOTAL PARTS				SEG. 20		167.45 *		

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INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER
		115650
AMOUNT		
CONT'D		

INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER			STORE	DIV.	SALESMAN	TERMS	PAGE
				115650					71	G	735	2	12
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA					INV. SEQ. NUMBER	
LH98504		02-04-22		10	10	10						1	
MAKE	MODEL		SERIAL NUMBER				EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER		
AA	982M		0K1Y00439						5456.0				
QUANTITY	ITEM			N/R	DESCRIPTION				UNIT PRICE		EXTENSION		
				* * *	PROFORMA INVOICE				* * *				
					SEGMENT 20 TOTAL				F/R LBR		620.00 * 787.45 T		

	TROUBLESHOOT TRANSMISSION				SEGMENT 21 TOTAL				F/R LBR		620.00 * 620.00 T		

	TROUBLESHOOT TRANSMISSION FOR LEAKS				SEGMENT 22 TOTAL				F/R LBR		620.00 * 620.00 T		

	TROUBLESHOOT HYDRAULIC TANK FOR LEAKS				SEGMENT 23 TOTAL				F/R LBR		620.00 * 620.00 T		



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CONT'D		

INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE
				115650				71	G	735	2	13
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA			INV. SEQ. NUMBER		
LH98504		02-04-22		10	10	10				1		
MAKE	MODEL		SERIAL NUMBER				EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER	
AA	982M		0K1Y00439						5456.0			
QUANTITY	ITEM			N/R	DESCRIPTION				UNIT PRICE		EXTENSION	
				* * *	PROFORMA INVOICE				* * *			
	TROUBLESHOOT AXLE ARRANGEMENT FOR LEAKS											
					SEGMENT 24 TOTAL				F/R LBR		620.00	*
											620.00	T

	TROUBLESHOOT AXLE ARRANGEMENT FOR LEAKS											
					SEGMENT 25 TOTAL				F/R LBR		620.00	*
											620.00	T

	TROUBLESHOOT IMPLEMENT CONTROLS FOR LEAKS											
					SEGMENT 26 TOTAL				F/R LBR		620.00	*
											620.00	T

	ADJUST WIRING HARNESS											

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AMOUNT		
CONT'D		

INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE
				115650				71	G	735	2	14
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA			INV. SEQ. NUMBER		
LH98504		02-04-22		10	10	10				1		
MAKE	MODEL		SERIAL NUMBER				EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER	
AA	982M		0K1Y00439						5456.0			
QUANTITY	ITEM			N/R	DESCRIPTION				UNIT PRICE		EXTENSION	
				* * *	PROFORMA INVOICE				* * *			
					SEGMENT 27 TOTAL				F/R LBR		465.00 *	
											465.00 T	
	TROUBLESHOOT ENGINE FILTER											
					SEGMENT 28 TOTAL				F/R LBR		155.00 *	
											155.00 T	
	TROUBLESHOOT HYDRAULIC HOSES/LINES FOR LEAKS											
					SEGMENT 29 TOTAL				F/R LBR		155.00 *	
											155.00 T	
	TROUBLESHOOT AXLE ARRANGEMENT AXLE OIL COOLER											
					SEGMENT 30 TOTAL				F/R LBR		465.00 *	
											465.00 T	
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INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER
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INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER			CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE		
		115650					71	G	735	2	15		
PSO/WO NUMBER	DOC. DATE	PC	LC	MC	SHIP VIA				INV. SEQ. NUMBER				
LH98504	02-04-22	10	10	10					1				
MAKE	MODEL	SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER				
AA	982M	0K1Y00439					5456.0						
QUANTITY	ITEM	N/R		DESCRIPTION				UNIT PRICE		EXTENSION			
		* *	*	PROFORMA INVOICE				* *	*				
TROUBLESHOOT TRANSMISSION LINE(S)													
				SEGMENT 31 TOTAL				F/R LBR		1085.00 *			
										1085.00 T			

ADJUST WIRING HARNESS													
33	3S-2093	TIE		S				.24		7.92			
33	6K-0806	TIE		S				.39		12.87			
33	7K-1181	TIE		S				.42		13.86			
				TOTAL PARTS				SEG. 32		34.65 *			
				SEGMENT 32 TOTAL				F/R LBR		310.00 *			
										344.65 T			

REPLACE HOOD													
1	3E-8020	SCREW		S				2.56		2.56			
1	5C-2890	NUT		S				.17		.17			
2	5P-0372	PIN		S				.51		1.02			

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INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE
				115650				71	G	735	2	16
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA				INV. SEQ. NUMBER	
LH98504		02-04-22		10	10	10					1	
MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER		
AA	982M		0K1Y00439					5456.0				
QUANTITY	ITEM			N/R	DESCRIPTION			UNIT PRICE		EXTENSION		
				* * *	PROFORMA INVOICE			* * *				
2	5P-4116				WASHER	S		.52		1.04		
4	6V-1820				BOLT	S		.57		2.28		
4	6V-5839				WASHER-HARD	S		.47		1.88		
2	6V-9632				NUT-WELD	S		.95		1.90		
2	7B-9323				PIN	S	10.60			21.20		
32	7X-0579				WASHER-HARD	S		.74		23.68		
4	8T-3490				NUT	S	1.68			6.72		
1	8T-4121				WASHER-HARD	S		.57		.57		
1	8T-4137				BOLT	S		.54		.54		
1	8T-4223				WASHER	S		.85		.85		
16	8T-6912				BOLT	S		.82		13.12		
7	9X-2045				SCREW	S	1.16			8.12		
1	118-3146				LATCH AS	S	143.86			143.86		
1	129-3180				LOCKNUT	S	1.19			1.19		
16	131-3540				LOCKNUT	S	.54			8.64		
12	162-2480				RIVET	S	1.86			22.32		
2	259-1286				BULB	**NSFN	2.34			4.68		
1	272-0002				STRIKER AS	S	37.68			37.68		
1	316-7220				PANEL AS-REA	**NSFN	1149.38			1149.38		
1	316-7221				GRILL	**NSFN	540.94			540.94		
1	327-4461				HANDLE AS	S	59.63			59.63		
16	345-6168				WASHER	S	2.04			32.64		
1	351-9918				LAMP-HALOGEN	S	9.08			9.08		
1	365-6193				FILM-CAT	S	13.93			13.93		
2	365-9526				GUIDE	S	7.06			14.12		
2	369-0717				PLATE	S	21.78			43.56		
1	372-2340				LINKAGE AS	S	57.65			57.65		

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INVOICE NUMBER		INV OICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE
				115650				71	G	735	2	17
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA			INV. SEQ. NUMBER		
LH98504		02-04-22		10	10	10				1		
MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING			MACH. I.D. NUMBER	
AA	982M		0K1Y00439					5456.0				
QUANTITY	ITEM			N/R	DESCRIPTION			UNIT PRICE		EXTENSION		
				* * *	PROFORMA INVOICE			* * *				
2	381-3643				DAMPER AS S			128.01		256.02		
1	391-5775				STRAP AS S			50.94		50.94		
1	395-3252				STRUT-MECHAN **NSFN			1003.74		1003.74		
2	416-9797				BAFFLE **NSFN			24.82		49.64		
16	461-7578				COLLAR **NSFN			24.95		399.20		
1	514-9645				SUPPORT AS **NSFN			599.43		599.43		
1	514-9647				SUPPORT AS-LH **NSFN			971.67		971.67		
1	514-9649				SUPPORT AS-R **NSFN			842.73		842.73		
					TOTAL PARTS			SEG. 33		6398.32 *		
								F/R LBR		1550.00 *		
					SEGMENT 33 TOTAL					7948.32 T		

RESEAL ENGINE OIL PAN												
1	1R-1808				FILTER AS-LU S			38.30		38.30		
1	3E-7427				ADAPTER S			65.79		65.79		
2	3E-8016				BOLT LOCK S			.43		.86		
55	3S-2093				TIE S			.24		13.20		
1	5D-1026				CLAMP S			2.07		2.07		
7	5K-5338				CLIP S			6.63		46.41		
28	5P-0767				CM-HOSE STK S			.13		3.64		
16	5P-4116				WASHER S			.52		8.32		
1	5P-8211				SEAL S			13.63		13.63		
								PLEASE PAY THIS AMOUNT AMOUNT CREDITED		CONT'D		
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INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER
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INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE
				115650				71	G	735	2	18
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA				INV. SEQ. NUMBER	
LH98504		02-04-22		10	10	10					1	
MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER		
AA	982M		0K1Y00439					5456.0				
QUANTITY	ITEM			N/R	DESCRIPTION			UNIT PRICE		EXTENSION		
				* * *	PROFORMA INVOICE			* * *				
2	5P-8245				WASHER-HARD	S		.73		1.46		
2	6A-5591				BOLT	S		.67		1.34		
14	6N-8863				WASHER	S		1.04		14.56		
8	6V-4249				BOLT	S		.92		7.36		
1	6V-7238				VALVE	S		35.79		35.79		
25	7K-1181				TIE	S		.42		10.50		
7	8T-4121				WASHER-HARD	S		.57		3.99		
7	8T-4137				BOLT	S		.54		3.78		
2	9M-1974				WASHER	S		.34		.68		
2	061-9458				SEAL	S		8.91		17.82		
16	131-3540				LOCKNUT	S		.54		8.64		
4	187-7331				MOUNT	S		14.91		59.64		
1	217-3673				SEAL-ISOLATION	S		138.77		138.77		
14	217-3674				FASTENER AS	S		8.88		124.32		
2	221-9208				CLAMP-T'BOLT	N		9.11		18.22		
1	238-5080				SEAL-O-RING	S		5.37		5.37		
6	287-3049				STUD-BOLT	S		12.27		73.62		
1	358-1742				HOSE	S		69.03		69.03		
10	3007913B				15W40 ULS OIL BULKS	S		16.92		169.20		
1	59630				LOCTITE SI 596 RD S	S		7.49		7.49		
					TOTAL PARTS		SEG. 34			963.80		*
					SEGMENT 34 TOTAL		F/R LBR			3720.00		*
										4683.80		T

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				115650						71	G	735	2	19
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA						INV. SEQ. NUMBER	
LH98504		02-04-22		10	10	10							1	
MAKE	MODEL		SERIAL NUMBER				EQUIPMENT NUMBER			METER READING			MACH. I.D. NUMBER	
AA	982M		0K1Y00439							5456.0				
QUANTITY	ITEM			N/R	DESCRIPTION				UNIT PRICE			EXTENSION		
				* *	*	PROFORMA INVOICE				* *	*			
REPLACE MISCELLANEOUS														
4	3D-2824				SEAL-O-RING				S	1.80			7.20	
1	5P-7470				CLIP				S	9.95			9.95	
1	5P-7471				CLIP				S	8.43			8.43	
1	5P-7703				GROMMET				S	22.48			22.48	
6	5P-9299				CLIP				S	5.59			33.54	
4	5P-9436				PLUG				S	16.91			67.64	
6	6D-4246				CLIP				S	5.56			33.36	
6	6V-1889				CLIP				S	6.71			40.26	
7	8T-4121				WASHER-HARD				S	.57			3.99	
6	8T-4136				BOLT				S	.67			4.02	
3	9C-5344				SPACER				S	20.65			61.95	
6	183-7121				BOLT				S	1.07			6.42	
6	198-4778				WASHER-HARD				S	3.82			22.92	
10	200-6345				MOUNT-SWIVEL				S	5.81			58.10	
20	204-2281				TIE-WRAP				S	1.89			37.80	
6	362-1320				BOLT-HEX HEAD				S	1.47			8.82	
3	389-4217				BRACKET AS				S	121.49			364.47	
					TOTAL PARTS				SEG.	35			791.35 *	
										F/R LBR			1860.00 *	
2.00					UPS GROUND								37.40	
					TOTAL OTHR CHGS				SEG.	35			37.40 *	

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SHIP TO/REFERENCE:**TERMS:**

NET 10TH OF THE MONTH FOLLOWING INVOICE DATE. A 1 1/2% PER MONTH
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INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER
		115650
AMOUNT		
CONT'D		

INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE
				115650				71	G	735	2	20
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA				INV. SEQ. NUMBER	
LH98504		02-04-22		10	10	10					1	
MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER		
AA	982M		0K1Y00439					5456.0				
QUANTITY	ITEM			N/R	DESCRIPTION			UNIT PRICE		EXTENSION		
				* *	PROFORMA INVOICE			* *				
					SEGMENT 35 TOTAL					2688.75 T		

RESEAL	HYDRAULIC CONTROL VALVE											
12	1P-3703				SEAL S			2.45		29.40		
14	1P-3704				SEAL S			2.86		40.04		
21	3J-1907				SEAL-O-RING S			1.16		24.36		
8	4J-0524				SEAL-O-RING S			2.99		23.92		
8	5K-9090				SEAL-O-RING S			1.47		11.76		
1	5P-7703				GROMMET S			22.48		22.48		
18	6V-8397				SEAL-O-RING S			1.18		21.24		
12	7M-8485				SEAL-O-RING S			1.96		23.52		
4	095-9232				BOLT **NSFN			8.00		32.00		
1	389-4197				HOSE AS. N			434.50		434.50		
1	389-4199				HOSE AS. N			45.43		45.43		
1	389-4222				HOSE AS. N			64.41		64.41		
1	433-6005				HOSE AS. N			43.82		43.82		
1	441-2044				HOSE AS. N			43.08		43.08		
1	441-9434				HOSE AS. N			89.19		89.19		
1	441-9435				HOSE AS. N			351.12		351.12		
1	461-0736				HOSE AS. N			446.37		446.37		
9	8T9579BK				10W BULK OIL S			20.55		184.95		
					TOTAL PARTS			SEG. 36		1931.59 *		

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THIS IS NOT AN INVOICE**PROFORMA**

INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER
		115650
AMOUNT		
CONT'D		

INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE
				115650				71	G	735	2	21
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA			INV. SEQ. NUMBER		
LH98504		02-04-22		10	10	10				1		
MAKE	MODEL		SERIAL NUMBER				EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER	
AA	982M		0K1Y00439						5456.0			
QUANTITY	ITEM			N/R	DESCRIPTION				UNIT PRICE		EXTENSION	
				* *	PROFORMA INVOICE				* * *			
					SEGMENT 36 TOTAL				F/R LBR		3720.00 * 5651.59 T	

	RESEAL HYDRAULIC TANK											
1	2H-6338				SEAL-O-RING S				4.82		4.82	
2	8T-4983				CLAMP S				16.34		32.68	
2	144-0367				CLAMP S				16.30		32.60	
1	364-7801				HOSE **NSFN				44.51		44.51	
1	389-4387				HOSE N				50.68		50.68	
					TOTAL PARTS				SEG. 37		165.29 *	
									F/R LBR		1240.00 *	
1.00					N/S FREIGHT-IN						6.50	
					TOTAL OTHR CHGS				SEG. 37		6.50 *	
					SEGMENT 37 TOTAL						1411.79 T	

	REPLACE HOSES & LINES POWER TRAIN											
								PLEASE PAY THIS AMOUNT AMOUNT CREDITED		CONT'D		

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		115650
AMOUNT		
CONT'D		

INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE
				115650				71	G	735	2	22
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA			INV. SEQ. NUMBER		
LH98504		02-04-22		10	10	10				1		
MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING			MACH. I.D. NUMBER	
AA	982M		0K1Y00439					5456.0				
QUANTITY	ITEM			N/R	DESCRIPTION			UNIT PRICE		EXTENSION		
				* *	PROFORMA INVOICE			* * *				
8	2M-9780				SEAL-O-RING	S		1.44		11.52		
13	3D-2824				SEAL-O-RING	S		1.80		23.40		
13	6V-9746				SEAL-O-RING	S		1.34		17.42		
8	7J-9108				SEAL-O-RING	S		1.28		10.24		
25	204-2281				TIE-WRAP	S		1.89		47.25		
1	380-9893				HOSE AS.	N		69.07		69.07		
1	389-4382				HOSE AS.	N		154.03		154.03		
					TOTAL PARTS		SEG. 38			332.93 *		
					SEGMENT 38 TOTAL		F/R LBR			930.00 *		
										1262.93 T		

REPLACE CAMERA												
1	1P-0810				TAPE	S		8.37		8.37		
1	3S-2093				TIE	S		.24		.24		
1	4E-6859				BRACKET A	**NSFN		44.94		44.94		
152	5I-4200				GUARD-BULK	**NSFS		.07		10.64		
1	6D-4246				CLIP	S		5.56		5.56		
18	7K-1181				TIE	S		.42		7.56		
4	8M-2770				CLIP	S		4.86		19.44		
1	8T-3490				NUT	S		1.68		1.68		
5	8T-4121				WASHER-HARD	S		.57		2.85		
CASHMAN CAT Las Vegas 702-649-8777								PLEASE PAY THIS AMOUNT AMOUNT CREDITED		CONT'D		
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INVOICE NUMBER	INVOICE DATE	CUSTOMER NUMBER
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INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE	
				115650				71	G	735	2	23	
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA				INV. SEQ. NUMBER		
LH98504		02-04-22		10	10	10					1		
MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER			
AA	982M		0K1Y00439					5456.0					
QUANTITY	ITEM			N/R	DESCRIPTION			UNIT PRICE		EXTENSION			
				* * *	PROFORMA INVOICE			* * *					
4	8T-4137				BOLT	S		.54	2.16				
1	8T-4195				BOLT	S		.79	.79				
9	9X-3402				SOCKET-CONNECTOR	S		1.90	17.10				
15	125-7874				CM-TUBE	S		.16	2.40				
15	125-7875				CM-TUBE SHRK	S		.18	2.70				
9	126-1768				SOCKET	S		2.17	19.53				
3	132-5789				CLIP	S		6.71	20.13				
1	144-4613				ANGLE AS	N		19.39	19.39				
1	155-2260				PLUG KIT-CON	S		4.77	4.77				
3	155-2270				PLUG KIT	S		4.80	14.40				
1	266-8944				GROMMET	N		12.00	12.00				
1	290-5664				STRAP-CABLE	N		5.17	5.17				
1	347-1668				CAMERA GP	S		613.08	613.08				
1	372-6048				HARNESS AS	**NSFN		510.04	510.04				
1	374-7463				CAP-SEAL	S		1.34	1.34				
					TOTAL PARTS		SEG. 39			1346.28 *			
							F/R LBR			620.00 *			
2.00				UPS SUPPLY						73.70			
					TOTAL OTHR CHGS		SEG. 39			73.70 *			
					SEGMENT 39 TOTAL						2039.98 T		

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INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE
				115650				71	G	735	2	24
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA			INV. SEQ. NUMBER		
LH98504		02-04-22		10	10	10				1		
MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER		
AA	982M		0K1Y00439					5456.0				
QUANTITY	ITEM		N/R	DESCRIPTION				UNIT PRICE		EXTENSION		
			* *	PROFORMA INVOICE				* * *				
RESEAL BRAKE OIL COOLER												
30	3D-2824			SEAL-O-RING	S			1.80		54.00		
30	6V-9746			SEAL-O-RING	S			1.34		40.20		
1	392-3667			HOSE AS.	N			95.61		95.61		
				TOTAL PARTS		SEG. 40				189.81	*	
						F/R LBR				620.00	*	
				SEGMENT 40 TOTAL						809.81	T	

REPLACE RIDE CONTROL SYSTEM												
5	1P-3702			SEAL	S			2.10		10.50		
6	5K-9090			SEAL-O-RING	S			1.47		8.82		
1	5P-8444			GROMMET	S			41.34		41.34		
6	7M-8485			SEAL-O-RING	S			1.96		11.76		
1	433-6044			HOSE AS.	N			235.08		235.08		
1	577-8809			ACCUMULATOR	S			1279.27		1279.27		
1	577-8811			ACCUMULATOR	**NSFS			1981.30		1981.30		
				TOTAL PARTS		SEG. 41				3568.07	*	
				TOTAL LABOR		SEG. 41				3082.95	*	

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		115650
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INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE
				115650				71	G	735	2	25
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA			INV. SEQ. NUMBER		
LH98504		02-04-22		10	10	10				1		
MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER		
AA	982M		0K1Y00439					5456.0				
QUANTITY	ITEM			N/R	DESCRIPTION			UNIT PRICE		EXTENSION		
				* *	PROFORMA INVOICE			* * *				
1.00					UPS SUPPLY					827.20		
					TOTAL OTHR CHGS			SEG. 41		827.20 *		
					SEGMENT 41 TOTAL					7478.22 T		

	PERFORM PM 5											
59	8T9579LT				10W LUBE TRUCK S			F/R PTS		1088.55 *		
								F/R LBR		124.00 *		
					SEGMENT 42 TOTAL					1212.55 T		

	REPLACE TRANSMISSION OIL COOLER MOUNTING											
2	168-2067				MOUNT AS **NSFN			32.66		65.32		
					TOTAL PARTS			SEG. 43		65.32 *		
								PLEASE PAY THIS AMOUNT AMOUNT CREDITED		CONT'D		
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		115650
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INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE
				115650				71	G	735	2	26
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA			INV. SEQ. NUMBER		
LH98504		02-04-22		10	10	10				1		
MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER		
AA	982M		0K1Y00439					5456.0				
QUANTITY	ITEM			N/R	DESCRIPTION			UNIT PRICE		EXTENSION		
				* * *	PROFORMA INVOICE			* * *				
1.00					N/S FREIGHT-IN			F/R LBR		155.00 *		
					TOTAL OTHR CHGS			SEG. 43		6.50 *		
					SEGMENT 43 TOTAL					226.82 T		

	REPLACE JOYSTICK											
1	20R-9684				CONT GP-JSTK **NSFN			3535.43		3535.43		
1					CORE CHARGE N			1087.16		1087.16		
1-					FULL CREDIT N			1087.16		1087.16-		
					TOTAL PARTS			SEG. 44		3535.43 *		
					N/S FREIGHT-IN			F/R LBR		465.00 *		
1.00					TOTAL OTHR CHGS			SEG. 44		21.09 *		
					SEGMENT 44 TOTAL					4021.52 T		

					CASHMAN FOCUS PROGRAMS							
								PLEASE PAY THIS AMOUNT		CONT'D		
								AMOUNT				
								CREDITED				

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AMOUNT		
75929.53		

INVOICE NUMBER		INVOICE DATE		CUSTOMER NUMBER		CUSTOMER ORDER NUMBER		STORE	DIV.	SALESMAN	TERMS	PAGE			
				115650				71	G	735	2	27			
PSO/WO NUMBER		DOC. DATE		PC	LC	MC	SHIP VIA				INV. SEQ. NUMBER				
LH98504		02-04-22		10	10	10					1				
MAKE	MODEL		SERIAL NUMBER			EQUIPMENT NUMBER		METER READING		MACH. I.D. NUMBER					
AA	982M		0K1Y00439					5456.0							
QUANTITY	ITEM			N/R	DESCRIPTION			UNIT PRICE		EXTENSION					
1.00-				* * *	PROFORMA INVOICE			* * *							
					MACH INSPEC PROG										
					TOTAL OTHR CHGS SEG. 90										
					SEGMENT 90 TOTAL										
-----				-----				-----				-----			
					TOTAL PARTS DISCOUNT NV TAX CLARK			223.76-		2576.23 T					
								PLEASE PAY THIS AMOUNT AMOUNT CREDITED		75929.53					

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Service Report

Report Header Information					
Work Order	LH98504	Dealer Code	H070	Manufacturer	Caterpillar Inc.,
Employee ID	1173,1680, 2680	Service Date	2/7/2022	Model	982M
Customer	HOLLYWOOD CONSTRUCTION	Customer Equipment Number	N/A	Customer PO	
Serial Number	K1Y00439				
SMU	5456 Hours	Equipment Location	nitrogen and the charge kit.		
IN Date	2/7/2022	Promise Date	2/7/2022	OUT Date	2/7/2022
Instructions	MRA-22-000072 LEO MASSARO				

Truck Information			
Truck Make		Truck Model	
VIN		Cab Type	
Vehicle Config		Delivery Date	

Segment Info			
Segment No: 00			
Segment Description: INSPECT MACHINE			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			
Segment No: 01			
Segment Description: PERFORM PM 4			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			
Segment No: 02			
Segment Description: REMOVE & INSTALL HANDLE VALVE LEVER			

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 03

Segment Description: TROUBLESHOOT PAYLOAD MONITOR SYSTEM

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 04

Segment Description: TROUBLESHOOT BACK UP CAMERA

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 05

Segment Description: REPLACE BACK UP ALARM

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 06

Segment Description: REPLACE REAR WINDOW

Job Code		Description	
Component Code		Description	

Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 07

Segment Description: REPLACE LEFT MIRROR

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 08

Segment Description: TROUBLESHOOT AIR CONDITIONER

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 09

Segment Description: REPAIR AIR CONDITIONER

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 10

Segment Description: TROUBLESHOOT PARKING BRAKE

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022

Instructions			
Segment No: 11			
Segment Description: REPAIR PARKING BRAKE			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			
Segment No: 12			
Segment Description: TROUBLESHOOT RIDE CONTROL SYSTEM			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			
Segment No: 13			
Segment Description: TROUBLESHOOT WORK LIGHTS			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			
Segment No: 14			
Segment Description: REPLACE BUCKET WEAR PLATES			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			
Segment No: 15			

Segment Description: REPLACE AUTOLUBE TANK			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 16			
Segment Description: TROUBLESHOOT FAULT CODES			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 17			
Segment Description: TROUBLESHOOT ENGINE HOOD			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 18			
Segment Description: TROUBLESHOOT HYDRAULIC HOSES/LINE LEAKS			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 19			
Segment Description: TROUBLESHOOT ENGINE OIL LEAKS			
Job Code		Description	

Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 20

Segment Description: REPAIR IMPLEMENT PUMP LEAK

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 21

Segment Description: TROUBLESHOOT TRANSMISSION

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 22

Segment Description: TROUBLESHOOT TRANSMISSION FOR LEAKS

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 23

Segment Description: TROUBLESHOOT HYDRAULIC TANK FOR LEAKS

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022

Instructions			

Segment No: 24

Segment Description: TROUBLESHOOT REAR AXLE FOR LEAKS

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 25

Segment Description: TROUBLESHOOT FRONT AXLE FOR LEAKS

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 26

Segment Description: TROUBLESHOOT IMPLEMENT CONTROL VALVE FOR LEAKS

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 27

Segment Description: ADJUST WIRING HARNESS

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 28			
Segment Description: TROUBLESHOOT ENGINE AIR FILTER HOUSING			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 29			
Segment Description: TROUBLESHOOT HYDRAULIC HOSES FOR LEAKS AND CLAMPS			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 30			
Segment Description: TROUBLESHOOT AXLE OIL COOLERS FOR LEAKS			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 31			
Segment Description: TROUBLESHOOT/ADJUST TRANSMISSION LINES			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 32			
Segment Description: ADJUST WIRING HARNESS			

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 33

Segment Description: REPLACE HOOD

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 34

Segment Description: RESEAL ENGINE OIL PAN

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 35

Segment Description: REPLACE MISCELLANEOUS

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 36

Segment Description: RESEAL HYDRAULIC CONTROL VALVE

Job Code		Description	
Component Code		Description	

Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 37

Segment Description: RESEAL HYDRAULIC TANK

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 38

Segment Description: REPLACE HOSES & LINES PWT

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 39

Segment Description: REPLACE CAMERA

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

Segment No: 40

Segment Description: RESEAL BRAKE OIL COOLER

Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022

Instructions			
Segment No: 41			
Segment Description: REPAIR RIDE CONTROL			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			
Segment No: 43			
Segment Description: REPLACE COOLER MOUNTS			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			
Segment No: 44			
Segment Description: REPLACE LEFT JOYSTICK			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			
Segment No: 90			
Segment Description: CASHMAN FOCUS PROGRAMS			
Job Code		Description	
Component Code		Description	
Start Date	5/16/2022	End Date	5/16/2022
Instructions			

SIMS / Part Causing Failure										
Segment No	Part Number	Part Name	Qty	SMCS	Primary	Secondary	Group Number Containing Part	Group Name	Product Inoperable?	CAT Item
02	361-6015	Lever	2	5702	U-Component RPL	61 Component Replaced	503-6401	Electrohydraulic control	Yes	Yes
Durability Indicator	No	Part Failure Comments								
05	213-9100	alarm as-back	1	7406	E-System Malfunction	78 Concealed Damage	364-1649	warning gp-backup	No	Yes
Durability Indicator	Yes	Part Failure Comments								
07	372-8076	mirror as	1	7319	G-General Repair	49 General Repair	366-1984	mirror gp-rear view exterior heated	Yes	Yes
Durability Indicator	No	Part Failure Comments								
09	334-2578	Core AS	1	1063	C-Leaks	16 Leaks Air/Gases	365-0007	Radiator & aftercooler GP	Yes	Yes
Durability Indicator	No	Part Failure Comments								
11	436-5961	Park brake	1	4267	G-General Repair	49 General Repair	374-8394	Brake GP parking	Yes	Yes
Durability Indicator	No	Part Failure Comments								
13	351-9918	Lamp halogen	1	1434	G-General Repair	49 General Repair	219-6485	Lighting gp flood & signal	No	Yes
Durability Indicator	Yes	Part Failure Comments								
14	109-9215	Plate-Wear	1	6102	G-General Repair	49 General Repair	417-9618	BUCKET GP	No	Yes
Durability Indicator	Yes	Part Failure Comments		3/4/22						
15	389-4161	Doser	1	7540	E-System Malfunction	57 Plugged, Restrict	389-4080	Valve GP lube distribution		Yes
Durability Indicator		Part Failure Comments								
15	343-1849	Pump	1	7540	C-Leaks	17 Leaks Oil/Lube	364-7945	Automatic lubrication system		Yes

SIMS / Part Causing Failure										
Segment No	Part Number	Part Name	Qty	SMCS	Primary	Secondary	Group Number Containing Part	Group Name	Product Inoperable?	CAT Item
Durability Indicator		Part Failure Comments								
20	389-4383	Hose as.	1	5057	C-Leaks	17 Leaks Oil/Lube	389-4385	Lines gp hydraulic oil cooler	No	Yes
Durability Indicator	Yes	Part Failure Comments								
22	6V8397	O-Ring	1	3073	G-General Repair	49 General Repair	365-2337	Control GP Transmission Hyd.	Yes	Yes
Durability Indicator	No	Part Failure Comments								
27	469-8453	Harness	1	1408	G-General Repair	49 General Repair	469-8456	Harness AS chassis	Yes	Yes
Durability Indicator	No	Part Failure Comments								
32	469-8453	Harness	1	1408	G-General Repair	49 General Repair	469-8456	Harness AS chassis	Yes	Yes
Durability Indicator	No	Part Failure Comments								
33	514-9645	Support As	1	7251	A-Structural	10 Broken	450-9495	Support gp hood	No	Yes
Durability Indicator	Yes	Part Failure Comments								
33	381-3643	Damper AS	2	7251	E-System Malfunction	66 Pressure Too Low	367-2503	Hood gp	No	Yes
Durability Indicator	Yes	Part Failure Comments								
34	217-3673	Seal isolation	1	1302	C-Leaks	17 Leaks Oil/Lube	381-2640	PAn gp oil	Yes	Yes
Durability Indicator	No	Part Failure Comments								
35	124-6275	Clamp	1	1439	G-General Repair	49 General Repair	415-8029	Sensor & mtg gp pressure		Yes
Durability Indicator		Part Failure Comments								
36	095-9232	Bolt-socket head	4	5057	B-Surface Defect	03 Rusted, Corroded	364-7765	Lines gp hydraulic	No	Yes
Durability Indicator	Yes	Part Failure Comments								
37	389-4387	Hose	1	5057	C-Leaks	17 Leaks	364-7810	Lines gp	No	Yes

SIMS / Part Causing Failure										
Segment No	Part Number	Part Name	Qty	SMCS	Primary	Secondary	Group Number Containing Part	Group Name	Product Inoperable?	CAT Item
						Oil/Lube		hyd fan drive & clr		
Durability Indicator	Yes	Part Failure Comments								
37	364-7781	Hose	1	5057	C-Leaks	17 Leaks Oil/Lube	364-7765	Lines gp hyd	No	Yes
Durability Indicator	Yes	Part Failure Comments								
38	380-9893	Hose as	1	5057	C-Leaks	17 Leaks Oil/Lube	389-4385	Lines gp hyd oil cooler	No	Yes
Durability Indicator	Yes	Part Failure Comments								
38	389-4382	Hose as	1	5057	C-Leaks	17 Leaks Oil/Lube	364-7810	Fan dr & oil clr		Yes
Durability Indicator		Part Failure Comments								
39	347-1668	Camera gp	1	7348	E-System Malfunction	78 Concealed Damage	426-3742	Wiring gp camera	No	Yes
Durability Indicator	Yes	Part Failure Comments								
40	392-3667	Hose as	1	1365	C-Leaks	17 Leaks Oil/Lube	392-3668	Cooler gp axle oil	No	Yes
Durability Indicator	Yes	Part Failure Comments								
41	577-8811	Accumulator	1	5004	K-Serviceability	80 Hard To Access	577-8811	Accumulator GP ride control	Yes	Yes
Durability Indicator	No	Part Failure Comments								
41	577-8809	Accumulator	1	5004	K-Serviceability	80 Hard To Access	577-8809	Accumulator GP ride control	Yes	Yes
Durability Indicator	No	Part Failure Comments								
43	168-2067	Mount as	2	1063	R-Wrong/Missing Part.Tool.Lit.	82 Wrong/Missing Part	365-0008	Radiator & aftercooler gp	No	Yes
Durability Indicator	Yes	Part Failure Comments								
44	20R-9684	Joystick	1	5705	U-Component	61	591-5086	Control	Yes	Yes

SIMS / Part Causing Failure										
Segment No	Part Number	Part Name	Qty	SMCS	Primary	Secondary	Group Number Containing Part	Group Name	Product Inoperable?	CAT Item
					RPL	Component Replaced		gp-joystick		
Durability Indicator	Yes	Part Failure Comments								

Labor									
Segment No	Operation No	Employee ID	Date	Overtime Indicator	Labor Codes	Start Time	End Time	Shift	Man Hours

Miscellaneous Costs							
Segment No	Operation No	Employee ID	Date	Charge Codes	Qty	Description	Cost

Mileage						
Segment No	Operation No	Employee ID	Vehicle	Date	Charge Codes	Distance

Repair Background

Segment No: 00	
Customer Complaint	Inspect machine
Cause of Failure	
Resultant Damage	
Repair Process Comments	02-04-22 Shawn 1173 began inspection 02-07-22 Shawn 1173 completed inspection and parked at wash rack, extra time required for inspection due to condition of machine 2-21-22 > JB 2680 > Locate the machine and verify serial number. Move all tool boxes, bench and parts and return racks. Sweep and mop the floor. Get help guiding me between bay 22 & 23. Position racks and boxes into a working spot. 3-1-22 an> JB 2680 > Lead man Gary was told the machine was pressure washed and ready. He asked me to pull it in and go back on it. I went out there to the ready line and had a look at the areas that needed cleaning so I can start repairing the issues before I brought the machine in. The cleaning was not performed to my standards and will hinder me in my efforts to perform the necessary repairs in a proper condition. So I took pictures and uploaded them to Modern and sent them to Gary explaining my situation. I then pulled the machine back around to the wash rack and filled the sheet out again thoroughly, as I had the first time on 2-25-22.

	4-6-22 > 2680 > Make machine ready to move and inspect before moving. Move the machine over to the detail bay and pressure wash residual oil from areas that were repaired. Clean work area and tools. 5-16-22 > JB 2680 > There were some last minute corrections needed on the service report. Locate parts slips and notes. Go back and found parts that were returned and reported that back to administrator. Finish service report. 5-18-22 > JB 2680 > Re- enter the last minute corrections because the 1st attempt on 5-16 -22 failed due to a corruption in the service report and it shut down and lost all entries i had just done.
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Segment No: 01

Customer Complaint	
Cause of Failure	
Resultant Damage	
Repair Process Comments	

Segment No: 02

Customer Complaint	CHANGE FROM JOYSTICK TO LEVERS.
Cause of Failure	NONE.
Resultant Damage	NONE.
Repair Process Comments	2-23-22 > JB 2680 Verify and organize the new parts. 3-11-22 > JB 2680 > Begin the dismantling the right console. Clean work area and tools. 3-14-22 > JB 2680 Finish dismantling and marking all the wire harnesses. Clean work area and tools. 3-15-22 > JB 2680 > Find and research the schematic for each switch, button and lever that was included in the kit. The kit (M0064866) was vague at best as well as the info about it in SIS. I spoke with Bill in the technical help dept. and he found the same minimal info as I did. So, each new switch plug end had to be changed to the one included in the kit. That required tracing the harness from the machine and the new wires as well and mating them correctly. That information is not on the bulletin or on SIS. Once the harness was built, I installed it into the console and made connections. Mounted the support to the extending arm and hooked up ET. Changed the status from joystick installed to joystick uninstalled. Cannot test any functions yet because there are hydraulic issues at this time. Clean up work area and tools. I believe the kit was lacking info because it is a conversion from the joystick to a 2 lever set up. Usually it is the other way around. The joystick being the more sought after control style. 3-16-22 > JB 2680 > Set up tooling to perform a voltage check on updated connections.

	Found proper ground and proper voltage to all connections. Route and secure the new harness along the support frame and underneath the top console piece. Locate and install the right-hand console pieces that cover the sliding arm and then the bottom. Then attach the knee pad which required finding longer screws than what came in the kit. Then install the adjustable arm pad and adjustable wrist pad. Then install the call out decals in their respective spots. Complete service report. Clean up work area and tools. 3-17-22 > JB 2680 > Found the left front horn not sounding when the button was pressed. Remove the console cover. Found horn had voltage to the switch but would not sound the left front horn. Trace the power to the horn harness and found a pin loose in the plug at the back of the horn. Repair pin and test. Horn sounds. Secure harness, install console cover. Clean up work area and tools. Finish service report. 4-6-22 > JB 2680 > Finish SIMS and service report.
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Segment No: 03

Customer Complaint	TROUBLESHOOT PAYLOAD MONITOR SYSTEM
Cause of Failure	
Resultant Damage	
Repair Process Comments	2/18/22 1680 RETRIEVED FAULT CODE 2183-13 SYSTEM MUST BE CALIBRATED BEFORE OPERATING. STARTED TO RESEARCH ISSUE, WAS CALLED AWAY TO ANOTHER JOB. 3-10-22 > JB 2680 > Verify issue while testyng and attempt to calibrate the system through the monitor. It would not caliobrate. 4-5-22 > JB 2680 > Code 2813-13 > Hook up ET and research the payload fault code. Finding several different procedures to check and test the systems. Prepare the machine to move outside and run up to operating temperature. Attempt to calibrate the payload code first. Previously trying to calibrate the payload code with the simple calibration process proved unsuccessful. After researching I found a live action process. Trying the lengthy calibration process several times I was continually unsuccessful though. During the process it would flag other active codes. Upon researching them I found that the lift and angle calibrations needed to be calibrated. I had already calibrated these when the right-hand joystick was converted to 2 levers. But during ECM testing it must have lost that memory. So I had to recalibrate those two functions and clear those codes. It was still not taking the payload calibration for several more times until my battery died in the middle of a calibration. Disconnect ET and charge the laptop. Attempt the calibration again and it was successful. Test the machine and code did not come back up. Clean work area and tools.

Segment No: 04

Customer Complaint	T/S CAMERA.
Cause of Failure	INTERNAL.
Resultant Damage	CAMERA INOP.
Repair Process Comments	2-22-22 > Verify issue and test. 3-3-22 > JB 2680 > Remove the fuse panel cover and check for power at panel. Power is there. Remove the right side A pillar cover to allow access to the back of the monitor.

	Check for proper connection and harness. Good. Check for power at camera connection and I see the plug is damaged. And there is no power at the plug. Trace back the harness and perform a visual and wiggle test. Keep tracing the harness and I found the harness to be cut completely in half just above the LR storage box area. Clean up work area and tools. 3-7-22 > JB 2680 > Prepare parts and labor quote for Todd. 3-8-22 > JB 2680 > Install new camera and test. Clean work area and tools.
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Segment No: 05

Customer Complaint	ALARM INOP.
Cause of Failure	INTERNAL FAILURE.
Resultant Damage	UNSAFE CONDITION.
Repair Process Comments	2-21-22 > JB 2680 > Test for power and ground at the harness. Harness has both. Order new alarm. Install new alarm and test, alarm works as designed. Clean work area and tools. 4-6-22 > JB 2680 > Finish SIMS and service report.

Segment No: 06

Customer Complaint	WINDOW CRACKED.
Cause of Failure	UNKNOWN.
Resultant Damage	UNSAFE CONDITION.
Repair Process Comments	4-6-22 > JB 2680 I did not work on this segment the window was replaced by a glass company.

Segment No: 07

Customer Complaint	REPLACE MIRROR.
Cause of Failure	UNKNOWN.
Resultant Damage	MIRROR MISSING.
Repair Process Comments	2-21-22 > JB 2680 > Check the harness plug to the mirror. Remove the broken mirror. Order new mirror. Install new mirror and test. Mirror works as designed. Clean work area and tools. 4-6-22 > JB 2680 > Finish SIMS and service report.

Segment No: 08

Customer Complaint	T/S A/C SYSTEM.
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Cause of Failure	UNKNOWN.
Resultant Damage	A/C BLOWS WARM.
Repair Process Comments	2-21-22 > JB 2680 > Begin to t/s the a/c system not blowing cold. Check compressor connections. Clean work area and tools. 2-23-22 > JB 2680 > Follow path of A/C lines and found no issues visually with lines. Hook up gauges and check pressures. No pressure readings. Check condenser and receiver dryer. Found damage to the condenser. Clean up work area and tools.

Segment No: 09

Customer Complaint	REPAIR A/C.
Cause of Failure	HOLE IN THE CONDENSOR
Resultant Damage	A/C SYSYTEM INOP AND CONTAMINATED.
Repair Process Comments	2-28-22 > JB 2680 > Research and order the parts on SIS. Discuss with my lead Gary about what process we do here to flush the contaminated lines. 3-23-22 > JB 2680 > Locate and match the new parts. Locate the A/C machine from the tool room and discharge the A/C system. Remove damaged A/C condenser. Install new condenser and existing lines with new seals. Gather the proper ladder to reach the receiver dryer housing safely. Remove the housing. Match the new part. Remove the dryer. The two band clamps holding it in place would not function properly. Order new clamps. Install new dryer with new seals and clamps. The cab filters were so clogged I had to replace them for the system to operate as designed. Purge system and perform the vacuum and charge functions per CAT spec. (4.6 Lbs. 134) Start the machine and run the A/C. Output at cab vents is 47 degrees. Install dryer housing. Several corners are cracked and broken on the housing. Clean up work area and tools. Put the A/C machine away. 4-6-22 > JB 2680 > Finish SIMS and service report. 4-26-22 > JB 2680 Add more to service report.

Segment No: 10

Customer Complaint	PARK BRAKE COVERED IN OIL.
Cause of Failure	UNKNOWN.
Resultant Damage	OIL ON BRAKES COULD BE AN ISSUE.
Repair Process Comments	2-24-22 > JB 2680 > Verify Park brake works. It does. From underneath I can see oil all over the park brake system. But it looks to be coming from above. Pull the machine into the shop and raise the loader arms. Find a forklift and the find a stand that will secure the lift arms. Move stand into place with the forklift and secure the machine lift arms safely. Remove the main control valve covers and I can see many hoses and fittings leaking oil. I spend some good amount of time cleaning the worst areas and identify what I believe are the worst leaking parts. I will need to make a quote for this job. Clean up a large mess and

	clean tools.
Segment No: 11	
Customer Complaint	PARK BRAKE COVERED IN OIL.
Cause of Failure	UNKNOWN.
Resultant Damage	OIL SOAKED BRAKE PARTS.
Repair Process Comments	2-24-22 > JB 2680 > I scraped the heaviest amount of crud off the rotor, caliber and parts. I will have it pressured washed. Clean work area and tools. 4-25-22 > JB 2680 > No issues with the park brake found at this time. Oil was coming down onto the park brake assembly from the leaking main control valve. 4-26-22 > JB 2680 Finish SIMS and service report.
Segment No: 12	
Customer Complaint	T/S RIDE CONTROL.
Cause of Failure	SYSTEM FAILURE.
Resultant Damage	VERY ROUGH RIDE.
Repair Process Comments	3-24-22 > JB 2680 > Gather the nitrogen tank and the gauge set for testing. Clean fittings and apply the tooling. Research the charge spec in SIS and check the pressures in each high and low accumulator. Both were empty. The tank only had enough nitrogen to charge the low side. Charged it to CAT spec of (334 +- 17 PSI) Button up that tank and go back and swap it for a fuller tank. Check and charge the high side to CAT spec. (1088 +- 25 PSI) Accumulator would not take a full charge. Would only go to 600 PSI. Un hook charge tooling and return to the tool room. Return the nitrogen tank. I Let Todd know that it will need more work and I will make a parts and labor quote. Clean work area and tools. 3-25-22 > JB 2680 > Research parts and found a service bulletin with updated accumulator part numbers. Prepared parts and labor quote and turn onto Todd.
Segment No: 13	
Customer Complaint	T/S REAR LIGHTS.
Cause of Failure	UNKNOWN.
Resultant Damage	REAR CAB AND HOOD LIGHTS INOP.
Repair Process Comments	2-22-22 > JB 2680 > Check for power at the rear hood light harness. No power. Trace the harness back and it is the same harness used for the camera. Use the power probe to test each hood light. One works one doesn't. Will need a new lamp. And a new harness. Check for power at the fuse and relay board. Power is there. Remove the monitor panel and check power at the light switch. Power is there. Find the schematic and trace the harness to the rear work lights. Check both connections at the lights. Connections are

	good. Check the connecting plug from the outside of the cab. Connected. Check for power at that cab plug. No power. Remove the headliner at the rear of the cab and check the harness there on the inside. It is good. Trace the harness to the rear lower part of the cab. Remove the panel behind the seat and trace the harness to the ECM. Follow schematic and test power at the power to the lights pin. # 9. Power is good. Follow the path to the relays for the front and rear work lights. The front work lights are working. The rears are not. Test the relay. Relay is good. Test power at the rear relay pins and found it is missing power to the # 30 pin. I can jump 86 and 87 pin and the lights come on. I contacted tech support for question of where that relay gets it power. Follow the path tech laid out and found a failed second relay and fuse that supplies power to pin # 30. Install tester relay and new fuse and lights now work. Order parts. Parts delivered, install new relays and fuses. Install all interior parts and panels. Clean up work area and tools. The trouble shooting turned into a repair because there were electrical parts that had failed that needed to be replaced in order to follow the schematic trouble shooting steps. 4-11-22 > JB 2680 > Complete SIMS and service report.
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Segment No: 14

Customer Complaint	REPLACE BUCKET WEAR PLATES
Cause of Failure	WEAR
Resultant Damage	WEAR
Repair Process Comments	1115--3/3/22-- BROUGHT MACHINE INTO BAY. REMOVED OLD WEAR PLATES. BROUGHT NEW PLATES INTO BAY. PREPPED NEW PLATES AND SURFACE. CLEAN UP. 1115--3/4/22--USED CRANE TO POSITION PLATES ON BUCKET. INSTALLED NEW HARDWARE AND TORQUED TO SPEC. PARKED MACHINE AT MAIN SHOP. CLEAN BAY.

Segment No: 15

Customer Complaint	REPLACE AUTO LUBE TANK.
Cause of Failure	THE SUN.
Resultant Damage	LARGE CRACK IN THE TANK.
Repair Process Comments	2-21-22 > JB 2680 > Clean serial number plate and get autoluber info. Order the parts to rebuild. 2-22-21 > JB 2680 > Wipe down excess grease on outside of autoluber. Spray down with cleaner so I can get at the mounting hardware. Clean work area and tools. 3-11-22 > JB 2680, Remove broken auto lube plastic parts. Install new auto lube plastic parts. Autolube is throwing a code and not working. Will have to research the schematic. Clean up work area and tools. 3-23-22 > JB 2680 > Research the operating function of the auto lube system and found testing site. Hook up ET and acknowledge the lube system. Test electrical power and ground. Test low level switch. Remove lines and purge them. Locate the shop remote grease barrel and put some grease in the tank and perform a manual test. Lube pump purged water and air bubbles during each test until finally grease came out of port A. Put the lines back on and the tank assembly back together. Clean work area and tools.

4-5-22 > JB 2680 > While performing other tasks on the machine, I found a grease line that was loose and cracked at the fitting. Remove the fitting and cleaned it up. I can see the line and sleeve has been cracked and the connector check ball and e clip loose. Locate new parts in SIS and order. Clean up work area and tools. Order parts. Replace compression sleeve and connector then reattach the line. Clean the terminals again to the main plug and bleed the system once more. Clean the work area and tools.

4-6-22 > JB 2680 > A fault code J5524-7 came up during the QC check. The code is for the auto lube system. Bring the machine back into the shop, research the CAT auto lube system and begin T/S each component of the system. Fill the tank with grease. Clean up work area and tools.

4-7-22 > JB 2680 > Prepare the machine for testing. Remove the main feed line from the tank to verify output of grease. OK. Verify grease is at the feed line to the distribution rail. OK. Verify manual test mode on pump works. OK. Verify automatic mode works on pump. OK. Verify several fittings can be manually greased and the pins are taking grease. OK. Verify pressure spec from tank to distribution rail. (4,000 PSI.) relief kicks in at (3600 PSI.) Remove the pressure switch and check voltage. OK. Inspect the switch. OK. Found that grease is making it everywhere it should right up to the pop it valves. Remove a pop it valve and grease makes it to the valve but not through it. Dismantle 2 pop it valves and inspect. Hard grease from age seems to be clogging the tiny hole in each end of the valve. Clean 2 valves and run system. System is putting out grease in the 2 test valves to the fittings and pins. Clean up work area and tools.

4-11-22 > JB 2680 > Clean up fittings from when testing. Research SIS for parts and was not able to find all the parts needed. Reach out to parts for assistance and prepare a parts quote. Found parts needed but they are CAT back ordered. Bradley came to talk to me and I showed him just what we were working on. He is going to order some used parts and I will be ordering some new parts and rebuilding a large portion of this auto lube system. Clean up work area and tools.

4-19-22 > JB 2680 > Locate new parts and go through the inventory. Found parts for the forward distribution block. All is there except one doser and the block itself. Clean area of front block and mark each line. Remove the lines and the block. Remove each doser from the block and dismantle one doser to find a problem. You can see each moving part and a potential for failure. Clean block completely and verify grease can move through the block. It does. No restrictions or areas of clogging in the block. Install each doser in the assigned spots except for the one that's back ordered. Set up a fitting to bench test it and grease comes out all ports then stopped. I installed it onto the machine and hooked each line up and ran a manual test from the pump. I saw it cycle one time then stopped again. Grease is coming strong through the feed line but stops at the dosers. Clean up work area and tools.

4-20-22 > JB 2680 > Verify grease in tank, Verify power at the pump. Pull the in tank filter out and verify it is clean. Verify grease at feed line. Run an automatic test and a manual test. No grease at dosers. Turn info into tech services. Clean up work area and tools.

4-22-22 > JB 2680 > Locate used manifold that was ordered by Bradley. Remove shipping caps and end fittings. Set up my grease fitting adapter to allow me to manually apply grease and bench test the part. Currently, each doser has grease coming out of the supply end. As it should. Mark each line on existing manifold set up and remove all supply lines. Remove the manifold from the machine. Clean supply line ends that are covered in grease. Install the used manifold and install supply lines in the assigned positions. Clean up work area and tools.

4-25-22 > JB 2680 > Install feed line and return fittings. Connect main feed and return lines. R & R last doser that was backordered into the lower manifold. Fill lube tank. Connect the lines I had loose for testing. Hand grease each fitting to be sure the pins were

	not frozen or had an issue. Install front valve body and grease line covers. Repair threads on cover thread clips. Repair threads on clip bolts. Install left and right rear side panels. Install battery cover. Clean up huge grease mess at repair areas on the machine. Hook up ET and clear stored auto lube codes and reconfigure the system to match all the new parts. Clean the grease from the floor and all the tools that were used. Put up tools back to the tool room. Locate a forklift, mark up and bring pallets of customer parts to the storage area. Bring the large jack stands back to the outdoor location for them. Return parts that were not used. Finish SIMS and service report. Test drive the machine for the ride control and auto lube system. Clean up area and tools. 04-26-22 Shawn 1173 performed QC and parked machine at detail 4-26-22 > JB 2680 > Finish service report and SIMS.
Segment No: 16	
Customer Complaint	FAULT CODES.
Cause of Failure	
Resultant Damage	
Repair Process Comments	3-31-22 > JB 2680 > Prepare the machine to run and move. Move wheel chocks and tool boxes. Wipe up residual oil from frame area. Move large work bench out of the way. Move ladders. Remove steering lock from the machine. Check the fluids and start the machine. Back the machine out and run machine checking for fault codes. Work the machine in the dirt pile and travel about the yard. Several codes came up and I will need to research each one. Clean up work area and tools. 4-1-22 > JB 2680 > Set up ET and research fault codes. J5524-7 Lube fault, 3376-3 Direction fault. Scan through auto lube information and found several checks and tests to perform. Perform each test. Clean the connecting plug at the pump and make sure there was power again and I can see the pump pumping grease from port A. I was able to clear the code and drove the machine around. Shut machine off and when machine was turned back on a different lube fault code came up. I will now research that code. Research payload fault code and found a calibration procedure. Set up ET and calibrate the system per the instructions. I was able to clear the code and test drive the machine. Shut the machine off. Start the machine again and the code came up again. I will now have to research more. Clean up tools and work area. 4-4-22 > JB 2680 > Set up ET and research this direction code. There are many checks and tests. I performed each check per the chart. Checking for power at many places and grounds as well. Checking these connections required me to remove interior panels, console covers and ECM plugs. I checked and verified each connection and tested the components in the system. I reached out to tech services at one point for clarification on some readings. I was given another path to follow and performed those checks as well. Reading ET on a certain test for duty cycle parameters, I can see a difference that is concerning. Narrowing the problem to the FnR switch, I spoke with Todd and he will inform me if the customer wants to proceed. Todd informed me the Lube dept. was going to do the PM service on the machine this evening, so I was asked to put it back in safe running condition. Put machine back together and clean work area and tools. Todd gave the OK to

	order a re-man left hand joystick. Order part. 4-5-22 > JB 2680 > Hook up ET and research the payload fault code. Finding several different procedures to check and test the systems. Prepare the machine to move outside and run up to operating temperature. Attempt to calibrate the payload code first. Previously trying to calibrate the payload code with the simple calibration process proved unsuccessful. After researching I found a live action process. Trying the lengthy calibration process several times I was continually unsuccessful though. During the process it would flag other active codes. Upon researching them I found that the lift and angle calibrations needed to be calibrated. I had already calibrated these when the right-hand joystick was converted to 2 levers. But during ECM testing it must have lost that memory. So I had to recalibrate those two functions and clear those codes. It was still not taking the payload calibration for several more times until my battery died in the middle of a calibration. Disconnect ET and charge the laptop. Attempt the calibration again and it was successful. Test the machine and code did not come back up. Clean work area and tools. 4-6-22 > JB 2680 > Hook up the ET and clear all codes. Flash new updated software for the transmission and implement ECM's. VIMS codes are still there but per Gary & Todd we are not concerned with them. No other codes at this time. Clean work area and tools. 4-7-22 > JB 2680 > Hook up ET and check for the fault code one we relived the pressure back up in line. Code at this time is gone, but until we replace all the pop its it will most likely come back because of the system will trip a code once it senses any pressure build up. Clean work area and tools. 4-11-22 > JB 2680 > Start and move machine. Check for fault codes. None at this time. Remove ET connection and clean work area and tools.
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Segment No: 17

Customer Complaint	T/S HOOD.
Cause of Failure	DAMAGE.
Resultant Damage	HOOD CAME IN IN PIECES.
Repair Process Comments	2-23-22 > JB 2680 > Raise the hood and found the safety strap not in place. Also found the side engine covers in the bucket of the machine. Find forklift and find pallets. Put loose pieces on the pallets. Cut the zip ties holding the loose unsafe rear piece of hood in place before it came crashing down and injuring someone. Put it on the pallet. Put yellow tape on the broken sharp edges of the hood frame that are sticking out. Talk to my lead Gary, and he was going to make a recommendation on the repair to the salesman. Clean up work area and tools.

Segment No: 18

Customer Complaint	LEAKS IN SERVICE COMPARTMENT AREA.
Cause of Failure	UNKNOWN.

Resultant Damage	OIL LEAKING.
Repair Process Comments	2-23-22 > JB 2680 > Open compartment door. Visually check for leaks, and I can see where there is a fresh trail of oil from several hoses and fittings. Clean hoses and fittings off, and found some part numbers. Look up parts on SIS. Build a parts quote and send it to be quoted. Clean up work area and tools. 3-3-22 > JB 2680 > Prepare parts and labor quote for Todd.
Segment No: 19	
Customer Complaint	OIL AROUND THE LOWER ENGINE.
Cause of Failure	UNKNOWN.
Resultant Damage	WET OIL ON OIL PAN.
Repair Process Comments	2-24-22 > JB 2680 > I can see that there is oil coming from above It does not look like the oil pan is leaking. There are two pan bolts that are wet and must be just the grommet. I am going to run the engine some more to verify the leaks from above. Will need another wash. Clean work area and tools.
Segment No: 20	
Customer Complaint	PUMP LEAKING OIL.
Cause of Failure	FAILED SEALS AND LINE.
Resultant Damage	OIL LEAKING AROUND AND BELOW PUMP AREA.
Repair Process Comments	2-25-22> JB 2680 > Clean the area around the visual leak. I can see the line and seal are leaking. Locate parts on SIS and order them. Clean up work area and tools. 3-11-22 > JB 2680 > Locate parts and bring an oil drain cart to the machine. Clean off the oily fittings and remove the failed hose. Install new hose with new o-rings. Clean up work area and tools. 4-11-22 > JB 2680 > Complete SIMS and service report.
Segment No: 21	
Customer Complaint	NOISE FROM TRANSMISSION AREA WHEN SHIFTING.
Cause of Failure	UNKNOWN.
Resultant Damage	LOUD CLUNKING NOISE HEARD.
Repair Process Comments	2-23-22 > JB 2680 > Check underside of transmission. Check drive shafts. Test drive the machine to verify the noise. Bring the machine to the steam bay to clean off the large oil mess around the transmission. Clean work area and hand tools. 2-24-22 > JB 2680 > Run the machine and get it to operating temperature. Test drive the

	machine again and it seems to be a normal condition if using the left brake pedal. It will shift into neutral and downshift as designed. If using the right brake pedal, it does not shift as designed. It will not make a shifting noise like the left pedal. Possible the customer is using the left pedal and not realizing it shifts the machine. Clean work area and tools.
Segment No: 22	
Customer Complaint	T/S FOR LEAKS.
Cause of Failure	O-RING.
Resultant Damage	LEAKING OIL ONTO GROUND.
Repair Process Comments	4-7-22 > JB 2680 > Pressure wash the rear axle area and when that was done a small leak showed up at a pilot pressure line going to the transmission. Remove the line and install a new oring. Clean work area and tools. 4-11-22 > JB 2680 > Verify leak repair. No leaks at this time.
Segment No: 23	
Customer Complaint	LEAKING AROUND TANK.
Cause of Failure	UNKNOWN.
Resultant Damage	OIL LEAKING EVERYWHERE.
Repair Process Comments	2-23-22 > JB 2680 > Remove side panels and put them on a pallet. Clean oily area around the bottom of the hydraulic tank. Clean off the 2 main feed hoses from the tank to the pumps. I can see the hoses are leaking. But there seems to be more than just the hoses leaking. Clean up area around the machine and ask my lead Gary to guide me out so I can bring it to the steam bay because there is a large oily area below the tank and around the tank. I will monitor it closer once it has been cleaned. Search SIS for the hoses and parts needed to make the repair. Prepare parts quote and send to parts dept. Clean up tools and bay where it was leaking. 3-3-22 > JB 2680 > Prepare parts and labor quote for Todd.
Segment No: 24	
Customer Complaint	T/S REAR AXLE.
Cause of Failure	UNKNOWN.
Resultant Damage	REAR AXLE SOAKED WITH OIL.
Repair Process Comments	2-25-22 > JB 2680 > Remove sensor guard and hose guard from the rear diff. Scrape and clean around the input shaft and cannot see any immediate leaks. But it is so crusted up that it will need pressure washed. I will have to run it up to operating temp to check further for leaks once it has been pressure washed. Clean up work area and tools.

Segment No: 25	
Customer Complaint	
Cause of Failure	
Resultant Damage	
Repair Process Comments	
Segment No: 26	
Customer Complaint	T/S LEAKS AT VALVE.
Cause of Failure	SEALS. HOSES.
Resultant Damage	MASSIVE OIL LEAKS HAVE CAUSED CONTROL VALVE TO BE COVERED WITH OIL AND DIRT.
Repair Process Comments	2-25-22 > JB 2680 > Set up ladder and cleaning tools. Clean, spray and scrub the worst looking areas so I can get at and see the hoses and fittings. I identified the major leaks and then had to search SIS for each hose and seal. Also had to find the seals to repair the valve body leaks as well. Prepare parts list quote and sent it to parts. Clean up work area and tools.
Segment No: 27	
Customer Complaint	HARNESS IS LOOSE.
Cause of Failure	SUPPORT BRACKETS MISSING.
Resultant Damage	HARNESS HAS POTENTIAL FOR DAMAGE.
Repair Process Comments	3-23-22 > JB 2680 > Follow path of the engine harnesses and add support ladders and brackets from the center of machine all the way back to the fan shroud. I had to disconnect many electrical plugs and hoses in order to get the harness to follow the correct path. Cleaning out the thread holes and installing ladders and zip ties as needed to prevent harness damage. Also added brackets and dip clamps to hoses on the right side as needed to make it like it was designed. Many were loose or missing. Some required a small come along to lift the group of large hoses in place so bolts could be started. Clean up work area and tools. 4-26-22 > JB 2680 > Finish service report and SIMS.
Segment No: 28	
Customer Complaint	T/S FILTER HOUSING DAMAGE.
Cause of Failure	WRONG FILTER.
Resultant Damage	SECONDARY FILTER FITS LOOSE.

Repair Process Comments	2-25-22 > JB 2680 > Remove cover and both primary and secondary filters. Clean inner housing and I can verify the secondary filter is loose inside the housing. So I check the part number in SIS and it seems to be the wrong secondary filter. I then go into SIS for the correct part number as well as the measurements for both part numbers. The wrong filter measures smaller than the correct filter. I spoke with Todd and let him know that the correct filter should fit tighter in the housing. Todd informed me that there will be a level 4 PM service on this machine and we agreed to let them replace the filter at that time. Clean up work area and tools.
Segment No: 29	
Customer Complaint	T/S LOOSE HOSES.
Cause of Failure	LOOSE AND MISSING CLAMPS.
Resultant Damage	HOSES ARE HANGING DOWN.
Repair Process Comments	2-25-22 > JB 2680 > Verify issue, look up in SIS and prepare a parts quote. Clean work area and tools.
Segment No: 30	
Customer Complaint	T/S AXLE COOLERS
Cause of Failure	SEALS. LINE
Resultant Damage	OIL IS EVERYWHERE ON AND AROUND BOTH COOLERS.
Repair Process Comments	2-25-22 > JB 2680 > Verify issue Found both coolers clogged and covered with crust. Scrape the worst areas and see if anything is broken on the coolers. Does not seem to be at this time. Get the hose numbers and look up hoses and seals. Prepare a quote then send it to parts. Clean up work area and tools. Back the machine out of bay 23 and take it to the wash bay to wash all the areas I have been working up the quotes on. This machine is deep in oil and crud in the areas that need the most work.
Segment No: 31	
Customer Complaint	LOOSE LINES AT TRANSMISSION AREA.
Cause of Failure	MISSING AND LOOSE CLAMPS.
Resultant Damage	HOSES ARE SUBJECT TO EARLY WEAR AND TEAR FROM BEING LOOSE AND RUBBING.
Repair Process Comments	2-25-22 > JB 2680 > Track down many loose or missing clamps, straps and zip ties on many hoses around the underside of this machine. Find several different sizes on SIS and talk with the Todd about quoting out several different sizes and quantities. Prepare parts quote and send it to parts. Clean work area and tools. 3-24-22 > JB 2680 > Follow path of the engine harnesses and add support ladders and brackets from the center of machine and around the transmission. I had to disconnect many electrical plugs and hoses in order to get the harness to follow the correct path.

	Cleaning out the thread holes and installing ladders and zip ties as needed to prevent harness damage. Also added brackets and dip clamps to hoses on the both sides as needed to make it like it was designed. Many were loose or missing. Some required a small come along to lift the group of large hoses in place so bolts could be started. Clean up work area and tools.
Segment No: 32	
Customer Complaint	HARNESS LOOSE.
Cause of Failure	MISSING SUPPORTS.
Resultant Damage	POTENTIAL FOR DAMAGE TO HARNESS.
Repair Process Comments	3-23-22 > JB 2680 > Follow path of the engine harnesses and add support ladders and brackets from the center of machine all the way back to the fan shroud. I had to disconnect many electrical plugs and hoses in order to get the harness to follow the correct path. Cleaning out the thread holes and installing ladders and zip ties as needed to prevent harness damage. Also added brackets and dip clamps to hoses on the left side as needed to make it like it was designed. Many were loose or missing. Some required a small come along to lift the group of large hoses in place so bolts could be started. Clean up work area and tools. 4-26-22 > JB 2680 > Finish service report and SIMS.
Segment No: 33	
Customer Complaint	REAR HOOD HATCH INOP.
Cause of Failure	MISSING A STRUT.
Resultant Damage	UNSAFE.
Repair Process Comments	3/10/2022-2790 Brought machine in shop, removed hood frame and ordered parts. 3/15/2022- 2790 Tim Removed hood frame pieces from wooden crates, assembled new hood frame and did parts research. 3/16/2022-2790 Tim Riveted flaps on hood frame. 3/17/2022-2790 Tim Ordered Rework Procedure kit from REHS9433 to Improve Clam Shell Side Panel Mounting Strength. Ordered grill and film, set hood parts outside bay 21 on large pallet. 3-29-22 > JB 2680 > Locate parts and pieces needed for the hood project. Bring in to the shop the hood frame, side panels and top panel then begin aligning and installing the side panels. I decided to drill 4 more holes in the side panels in order to provide more support. Align top panel but the kit did not provide enough hardware. Order more hardware. Locate old hood and bring that into the shop as well so I can remove the lights and camera. Un box the rear hood screen and align in place. Order hardware to mount the screen. Clean work area and tools. 3-30-22 > JB 2680 > Locate new hardware and secure the screen to the rear panel. Remove the lights and camera that were mounted on the old panel. Test lights with the power probe. One does not work. Order light bulb. Install new bulb and mount lights in the new rear panel. Set up hood frame to accept the rear panel. Lift rear panel into place and start aligning bolt holes. Each bolt hole needed some adjustment and cleaning because of the fiberglass resin that was in the threaded holes. Once the panel was mounted the top

	panel needed more alignment and fitment needs. Adjust the top panel and secure. Set up crane and rigging. Hook up the lifting eye on the hood frame and crane the hood up and onto the machine frame. Secure the hood frame to the machine. Test the gas struts and they have failed. Order new struts. Also order main frame shock as well that was missing. Cut and chisel out the broken off rod end that was stuck in the mount. Clean work area and tools. 3-31-22 > JB 2680 > Set up the crane and rigging. Attach to the hood and raise the hood. Remove the old gas struts and save the ball sockets and clips. Install new gas struts. Locate new panel bolts and secure the top panel and side panels. Get the rivet gun from the tool room and install the two side panel wear plates with rivets. Return the tool. Attach the harness up and onto the hood and rear hood hatch. Mount with clamps and secure each connection with ladders and zip ties. Connect the lights. Borrow the camera from the other customers machine in the shop. (per Gary and Todd) and install it. It works. Locate new hatch handle and latch assembly then install. Adjust latch. Test each light and function of the hood and hatch. Still need main strut. Put crane back and clean work area and tools. 4-1-22 > JB 2680 > Locate new hood strut. Match part. Set up crane and rigging. Set up lifting eye on the hood. Crane up the hood and install the new strut with new pins and clips. Lower the crane and test hood. Hood hatch opens on its own now as designed but is weak, the hood droops some. Recommend replacing the used strut. As I was installing the strut, I noticed the torque converter cooler was loose. The isolator bushings are missing. Report to Todd, will order them per Todd. Clean work area and tools. 4-11-22 > JB 2680 Complete SIMS and service report.
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Segment No: 34

Customer Complaint	OIL LEAK.
Cause of Failure	GASKET LEAKS.
Resultant Damage	OIL LEAKING ONTO FRAME AND GROUND.
Repair Process Comments	3-25-22 > JB 2680 > Research parts and order. Locate electric lift and wood blocks. Remove the fuel tank and jack down and away from engine area. Secure in place. Remove and lower the axle coolers out of the way. Locate an oil drain cart and drain the engine oil. Remove the oil pan. Pressure wash the oil pan. Clean up work area and tools. 3-28-22 > JB 2680 > Prep engine block surface and clean the oil pan better than what the pressure washer can do. I found a piece of a previously broken dipstick in the oil pan stuck to the magnetic drain plug. Remove the 2 plugs in the pan and resealed them. Remove and replace the drain valve and drain hose. Set up all new hardware and new mounting seals. Set up new pan gasket. Apply LOCTITE 587 in the 4 corners designated by SIS. Install oil pan with the new hardware and seals. Torque bolts to CAT spec 42 ft. lbs. Locate electric lift and secure fuel tank onto the lift. Tap out hose clamp bungs on top of the fuel tank that were rusted from not being used. Route A/C lines across the tank and set up new clamps. Roll it into position and connect clamps. Jack the tank up and into position and install the rear pivot bolt. Then install new rubber bushings and mount the two frame bolts. Secure the remaining clamps for hydraulic lines that run across the tank. Clean up work area and tools. 3-29-22 > JB 2680 > Locate new oil filter and change the filter. Mark hours and date on the side of the filter. Add 15w40 oil to CAT spec. and at full on the dipstick. (10.25 Gallons) Parts came in for the fuel tank fill neck. Install new rubber and clamps for the fill neck.

	Locate the shop transfer pump and set it up. Transfer the customers fuel into the tank. Bring transfer pump cart and barrels back to the tool room. Start and run/test the machine for leaks. None found at this time. Clean work area and tools. 4-11-22 > JB 2680 > Complete SIMS and service report.
Segment No: 35	
Customer Complaint	HOSES LOOSE.
Cause of Failure	MISSING CLAMPS AND HOLD DOWNS.
Resultant Damage	LINES FLOPPING AND POSSIBLE CHAFFING
Repair Process Comments	3-11-22 > JB 2680 > Clean area of implement hose clamp connections. Install new clamps on hoses going to the implement pump. Clean up work area and tools. 3-17-22 > JB 2680 > Clean areas that are missing more clamps and tie downs. Install missing clamps. Clean work area and tools. 3-18-22 > JB 2680 > Follow the route of hoses along the transmission. Found missing clamps and clean the mounting holes and install hose supports. Clamp smaller lines along the inner frame area around there transmission. Clean work area and tools. 3-22-22 > JB 2680 > Follow the route of the hoses going to the control valve. Locate mounting spots for the clamps and clean the thread holes. Fit clamps and securely mount the hoses. Secure pilot pressure hoses going to the valve body. Fasten, secure and strap every hose that was found loose. Multiple and many hoses was found loose or routed wrong. Re route to prevent possible damage. Clean work area and tools. 4-11-22 > JB 2680 > Complete service report. 4-26-22 > JB 2680 > Finish SIMS. Many SIMS info did not get saved and I had to re-do many of the categories. Mark and return all new parts that were not needed.
Segment No: 36	
Customer Complaint	OIL LEAK.
Cause of Failure	SEALS AND LINES.
Resultant Damage	OIL LEAKING IN MANY PLACES.
Repair Process Comments	3-12-22 > JB 2680 > Locate some parts that arrived and inventory them. Prepare tooling to remove the main control valve. Find a drain cart and 2 clean barrels. Open door to expose drain valve and set up hose to drain the hydraulic tank. Drain the hydraulic oil into clean barrels. Remove lift arm hoses and valves in order to get at the mounting bolts to the control valve. Remove all attached lines and hoses to the control valve. Set up the crane and rigging and crane the valve out of the machine and put it in a large crate. Clean work area and tools. 3-16-22 > JB 2680 > Set up the crane and rigging. Set up drain cart. Crane the valve body into the drain cart and begin cleaning the valve body. 3-17-22 > JB 2680 > Cap, plug and seal each open fitting line. Soak valve body in

	degreaser then scrub and spray wash the body clean. 3-18-22 > JB 2680 > Crane the valve body onto the bench. Remove each hose fitting. Clean each fitting and the check valve block. Dismantle the check valve and clean the internal parts. Clean each fitting mounting area and install each fitting with new seals at the base and at the hose attaching end. Clean work area and tools. 3-21-22 > JB 2680 > Retrieve new parts for the check valve and install the valve to the valve body. Torque bolts to spec. (80 ft. lbs.) Install the new line to the valve. Set up the crane and rigging. Crane the valve body over to the machine and lower into place. Connect the two rear 8 wire hoses to the valve body and then clamp those hoses to the frame. These two hoses are a challenge because of the location and their inability to bend easily so I had to remove them from the pump manifold in order to route them correctly and fit the frame clamps. Then mount the control valve to the frame. 3-22-22 > JB 2680 > Clean all hoses that go to the control valve. Clean all electrical connections going to the control valve. Set up the crane and rigging then crane the lift cylinder hose manifold into place. Mount manifold with new seals and torque to spec. Route and install the harness to the mounting studs on base plate. Connect all solenoid plugs. Then connect all hoses in the order that they route to the valve body. Secure hoses with the brackets and clamps. Put the crane up and then locate an air pump and cart. Set up the pump and air supply. Fill the hydraulic tank with the customers oil that was drained originally. But it wasn't enough, I had to put some fresh oil in the hydraulic tank to bring it to the proper level. Prime the system and start the machine. Run the machine up to operating temperature and check all repaired hose connections for leaks. Clean the pump and return to the tool room. Clean work area and tools. 4-11-22 > JB 2680 > Complete SIMS and service report.
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Segment No: 37

Customer Complaint	HYDRAULIC TANK LEAKS.
Cause of Failure	HOSES FAILED.
Resultant Damage	OIL LEAKING ONTO EVERYTHING BELOW THE TANK.
Repair Process Comments	3/11/2022-2790 Replaced hydraulic line on right side from filter to pump, also removed and replaced o-rings on fittings line attached to. 3/12/2022 - 2790 replaced hydraulic hose inside right side compartment from filter to valve assembly. 3/14/2022 Tim 2790 replaced hose coming off hydraulic tank had to return and order a different part for the other pre bent hose coming off hydraulic tank. 3-24-22 > JB 2680 Clean around the new hoses and test run the machine and check for leaks. Clean up work area and tools. 4-11-22 > JB 2680 > Complete SIMS and service report.

Segment No: 38

Customer Complaint	OIL LEAKS.
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Cause of Failure	LINES LEAKING.
Resultant Damage	OIL IS LEAKING ONTO OTHER COMPONENTS.
Repair Process Comments	3/15/2022 2790 Tim Replaced leaking hoses and installed new o-rings. 3-17-22 > JB 2680 > Clean around center hose manifold area and loosen hoses at the connections. Drain off oil and remove all clamps and brackets that hold both the large inlet hoses that route through the frame area to the main control valve. Install two new hoses back in place and attach the brackets and clamps but left them loose for alignment purposes when the control valve is back in place. Remove the pilot pressure lines, clamps and brackets that route from the control valve to the center manifold. Clean the area and install those new lines. Clean work area and tools. 3-18-22 > JB 2680 > R & R hydraulic hoses on the main control valve. When replacing the check valve block hose I found the two top bolts that hold the block to the valve body broken off in the valve body. Remove the check block. Set up the oxy and acc tank cart and secure the valve body. Locate proper nuts so the broken pieces could be double nutted. Then heat up the broken pieces of bolts and they finally came loose and out. Locate and order new hardware. Put the cart back and clean work area and tools. 4-11-22 > JB 2680 > Complete SIMS and service report

Segment No: 39

Customer Complaint	REPLACE CAMERA.
Cause of Failure	UNKNOWN AT THIS TIME.
Resultant Damage	CAMERA INOP.
Repair Process Comments	3-29-22 > JB 2680 > Begin cutting away the old harness and removing the worn harness ladders. Clean up work area and tools. 3-30-22 > JB 2680 > Locate and match new harness to what is left of the old, damaged harness. Remove the Left rear panel where the harness is connected and cut away zip ties. Remove clamps and old harness pieces. Make connections with the new harness and start routing it out and up from the left rear area. Clamping it where it will be safe. Route harness up the main frame and loosely attach it until the rear hatch panel is in its final place. Connect the camera for testing and the found the camera is not working. T/S camera and monitor. Found the camera has failed. Clean up work area and tools. 4-11-22 > JB 2680 > Complete SIMS and service report.

Segment No: 40

Customer Complaint	
Cause of Failure	
Resultant Damage	

Repair Process Comments	3/12/2022-2790 Removed and cleaned bolt coolers, replaced hydraulic hose and 23 o-rings on brake oil coolers. 3-14-22 Tim 2790 installed cover plates on diff. 4-11-22 > JB 2680 > Complete SIMS and service report.
Segment No: 41	
Customer Complaint	ROUGH RIDE.
Cause of Failure	ACCUMULATORS FAILED.
Resultant Damage	ROUGH RIDE.
Repair Process Comments	3-28-22 > JB 2680 > Order parts. 4-15-22 > JB 2680 > Move tools to bay 23. Locate the machine. Move machine into bay 23. Locate and match new parts. Release pressure from accumulators. Get the transducer from the tool room and make several tries to connect the right adapter and set up on the hydraulic tank. Get an oil drain pan from the tool area. Create a vacuum then taking time to remove the line clamps then remove the oil line to the ride control system. Cap and plug the system. Remove the supports from the frame to the accumulators. Set up the crane and rigging. Crane the accumulators out of the machine and onto the bench. Remove the manifold and support from the top accumulator. Clean parts and install new o rings. Crane up new small accumulator onto the bench. Install the manifold and support. Clean up the work area and tools. 4-18-22 > JB 2680 > Fill out service report for 4-15-22. Set up the crane and rigging. Get transmission jack from tool area. Crane upper accumulator onto the jack and jack it into place using both the jack and crane. Secure to the frame and repeat the process with the larger lower accumulator. Secure both to the frame and make the manifold connection. Then install the new supply hose to the manifold and the main control valve. Take the transmission jack back and put the crane away. Locate the nitrogen bottle and the charge kit. Look up the charge spec and charge both accumulators to CAT spec. (1088 +- 25 PSI) and (344 + - 17 PSI) Put the bottle and charge kit back. Clean up work area and tools. No oil lost. Refill not needed. 4-26-22 > JB 2680 > Finish service report and SIMS.
Segment No: 43	
Customer Complaint	TORQUE CONVERTER COOLER LOOSE.
Cause of Failure	BUSHINGS MISSING.
Resultant Damage	POTENTIAL DAMAGE TO THE COOLER.
Repair Process Comments	4-1-22 > JB 2680 > Found the cooler very loose. Remove top plate on coolant package. The bushings that hold the cooler in place are not there. Inform Todd and got the ok to order the bushings. The lube dept. may possibly performing a PM tonight Todd says so I put the top plate back on for safety purposes. Clean up tools and work area.

	4-4-22 > JB 2680 > Locate new parts and remove the top plate. Install new bushings. Install top plate and clean work area and tools. 4-11-22 > JB 2680 > Complete SIMS and service report.
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Segment No: 44

Customer Complaint	DIRECTION FAULT CODE.
Cause of Failure	LEFT JOYSTICK.
Resultant Damage	FAULT CODE SHOWS UP ON THE MONITOR.
Repair Process Comments	4-6-22 > JB 2680 > Locate and verify the joystick part. Remove the left console covers and associated parts to gain access to the joystick. Mark the harness and remove the joystick assembly. Install the new part and install covers. Turn old joystick in for the core charge. Clean work area and tools. 4-11-22 > JB 2680 > Complete SIMS and service report.

Segment No: 90

Customer Complaint	
Cause of Failure	
Resultant Damage	
Repair Process Comments	

Customer Signature	Technician Signature
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Workorder Closing

Yes	Is the Job Completed?
Yes	Are unused parts being restocked?
No	Is a Reman core being returned?
No	Is this a warranty job?
No	Are warranty parts being returned?
No	Are checked-out tools being returned?
Yes	Has the information been entered to SIMS?

Additional Opportunities

Yes	Is there Additional Service to be done?
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Yes	Did the customer request a quote for additional service?
Yes	Did the customer request a PSSR to contact them?
Comment	No parts used.

Parts				
Segment No	Order ID	Work Order	Operation	Additional Notes

Application Data		
Application	Report	Created
Cat Electronic Technician 2021B v1.0	Product Status Report	2/7/2022 6:55 AM

Cat Electronic Technician 2021B v1.0

Product Status Report

2/7/2022 6:55 AM

Product Status Report

Parameter	Value
Product ID	K1Y00439
Equipment ID	982m
Comments	

Diesel Exhaust Fluid Controller #1

Parameter	Value
Aftertreatment #1 DEF Dosing System Serial Number	PET024974T
Application Software Part Number	5393577-00

Configuration - Diesel Exhaust Fluid Controller #1

Description	Value	Unit
Aftertreatment #1 DEF Dosing System Serial Number	PET024974T	
Application Software Part Number	5393577-00	

Engine #1 Aftertreatment Controller

Parameter	Value
Equipment ID	982m
Engine Serial Number	T4F03099
ECM Serial Number	29447021QU
Software Group Part Number	5657275-00
Software Group Release Date	JUL18
Software Group Description	AFT_T4F_C13_HWA_A5E2V1

Logged Diagnostic Codes [Diagnostic Clock = 5456 hours] - Engine #1 Aftertreatment Controller

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

Logged Event Codes [Diagnostic Clock = 5456 hours] - Engine #1 Aftertreatment Controller

Code	Description	Occ.	First	Last
E114 (1)	Aftertreatment #1 DEF Dosing Unit #1 Input Lines Not Purged	3	5442	5453
E1466 (1)	Operator Forced Shutdown with High Exhaust Temperature	1	5445	5445

Active Diagnostic Codes - Engine #1 Aftertreatment Controller

Code	Description
No Active Diagnostic Codes	

Active Event Codes - Engine #1 Aftertreatment Controller

Code	Description
No Active Event Codes	

System Communication Status - Active Problems - Engine #1 Aftertreatment Controller

ECMs	Detected Problem	Data Link	Diagnostic Information
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System Communication Status - Inactive Problems - Engine #1 Aftertreatment Controller

ECMs	Detected Problem	Data Link	Diagnostic Information
Device 1: Engine #1 Aftertreatment Controller - Device 2: Aftertreatment #1 Outlet #1 NOx Level Sensor	Device #1 is not receiving all expected parameters from Device #2 on the data link.	J1939 #3	Diagnostic Code: 5856-14 - Service Hour Meter: 15279:01:31 -
Device 1: Engine #1 Aftertreatment Controller - Device 2: Aftertreatment DEF Controller #1	Device #1 is unable to communicate with Device #2 on the data link.	J1939 #3	Diagnostic Code: 5856- 9 - Service Hour Meter: 15279:15:24 -
Device 1: Engine #1 Aftertreatment Controller - Device 2: Aftertreatment #1 Intake #1 NOx	Device #1 is unable to communicate with Device #2 on the data link.	J1939 #3	Diagnostic Code: 5856- 9 - Service Hour Meter: 15279:15:24 -
Device 1: Engine #1 Aftertreatment Controller - Device 2: Aftertreatment #1 Outlet #1 NOx Level Sensor	Device #1 is unable to communicate with Device #2 on the data link.	J1939 #3	Diagnostic Code: 5856- 9 - Service Hour Meter: 15279:15:24 -

Current Totals - Engine #1 Aftertreatment Controller

Description	Value	Unit
DPF #1 Last Ash Service Engine Lifetime Hours	15194.9	hours
Total ARD Fuel	1793.563	gal
Aftertreatment #1 Total DEF Used	2496.9	gal
Exhaust Particulate Control System	0	sec

Description	Value	Unit
Diagnostic Time		
Exhaust Particulate Control System Diagnostic Count	0	

Configuration - Engine #1 Aftertreatment Controller

Description	Value	Unit
Equipment ID	982m	
Engine Serial Number	T4F03099	
ECM Serial Number	29447021QU	
Software Group Part Number	5657275-00	
Software Group Release Date	JUL18	
Software Group Description	AFT_T4F_C13_HWA_A5E2V1	
ARD Auto Regeneration Enable Status	Enabled	
Factory Installed Aftertreatment #1 Identification Number	CBC100455A	
ARD Fuel Pressure #2 System Installation Status	Installed	

Aftertreatment Regeneration History - Engine #1 Aftertreatment Controller

Aftertreatment Regeneration Speed Type	Aftertreatment Regeneration Trigger Type	ARD Auto Regeneration Enable Status	Regeneration Start Time	Regeneration Trigger Service Hours	Application Regeneration Readiness Status	Aftertreatment Regeneration Trigger Percent Soot	Aftertreatment Regeneration End Speed Type	Aftertreatment Regeneration End Trigger Type
High Speed	Start	Enabled	4/5/2021 4:04:57 PM	16442.19 hours	2	14 %	High Speed	Start
High Speed	Start	Enabled	9/23/2020 10:03:03 AM	16439.64 hours	2	12 %	High Speed	Start
High Speed	Start	Enabled	9/23/2020 10:01:14 AM	16439.61 hours	1	12 %	High Speed	Start
High Speed	Start	Enabled	6/29/2020 9:47:58 AM	16438.79 hours	1	10 %	High Speed	Start
High Speed	Start	Enabled	6/25/2020 4:45:00 PM	16438.34 hours	1	14 %	High Speed	Start
High Speed	Start	Enabled	4/30/2020 12:23:36 PM	16438.24 hours	1	12 %	High Speed	Start
Low Speed	Soot	Enabled	4/29/2020 10:25:20 AM	16432.64 hours	6	80 %	High Speed	Soot
High Speed	Soot	Enabled	4/28/2020 1:27:45 PM	16412.99 hours	1	81 %	High Speed	Soot
Low Speed	Soot	Enabled	4/28/2020 3:14:31 AM	16403.59 hours	5	77 %	High Speed	Soot

Aftertreatment Regeneration Speed Type	Aftertreatment Regeneration Trigger Type	ARD Auto Regeneration Enable Status	Regeneration Start Time	Regeneration Trigger Service Hours	Application Regeneration Readiness Status	Aftertreatment Regeneration Trigger Percent Soot	Aftertreatment Regeneration End Speed Type	Aftertreatment Regeneration End Trigger Type
High Speed	Soot	Enabled	4/28/2020 3:03:40 AM	16403.41 hours	1	80 %	High Speed	Soot
High Speed	Start	Enabled	4/27/2020 6:39:08 PM	16395.23 hours	2	53 %	High Speed	Start
High Speed	Start	Enabled	4/27/2020 11:23:56 AM	16389.64 hours	1	10 %	High Speed	Start
High Speed	Start	Enabled	4/27/2020 8:00:59 AM	16387.71 hours	1	16 %	High Speed	Start
Low Speed	Soot	Enabled	4/25/2020 3:10:02 AM	16385.63 hours	5	80 %	Low Speed	Soot
Low Speed	ARD Maintenance	Enabled	4/24/2020 8:10:41 PM	16378.88 hours	5	78 %	High Speed	ARD Maintenance
High Speed	Start	Enabled	4/24/2020 7:37:26 AM	16369.75 hours	1	64 %	High Speed	Start
High Speed	Start	Enabled	4/23/2020 5:57:46 PM	16364.66 hours	2	73 %	High Speed	Start
High Speed	Soot	Enabled	4/22/2020 10:35:03 AM	16352.05 hours	1	80 %	High Speed	Soot
High Speed	Start	Enabled	4/22/2020 6:15:48 AM	16347.73 hours	1	69 %	High Speed	Start
High Speed	Start	Enabled	4/21/2020 7:00:19 PM	16345.96 hours	2	77 %	High Speed	Start
Low Speed	Soot	Enabled	4/20/2020 12:17:06 PM	16336.57 hours	5	79 %	High Speed	Soot
High Speed	Soot	Enabled	4/20/2020 11:52:22 AM	16336.16 hours	1	81 %	High Speed	Soot
High Speed	Start	Enabled	4/20/2020 5:58:07 AM	16330.36 hours	1	24 %	High Speed	Start
High Speed	Start	Enabled	4/17/2020 10:39:19 AM	16327.44 hours	1	12 %	High Speed	Start
High Speed	Start	Enabled	4/17/2020 7:06:24 AM	16325.30 hours	1	11 %	High Speed	Start
High Speed	Pressure	Enabled	4/17/2020 3:21:39 AM	16324.12 hours	1	80 %	High Speed	Pressure
High Speed	Start	Enabled	2/4/2022 6:04:07 PM	5456.05 hours	1	0 %	High Speed	Start
Low Speed	Start	Enabled	12/6/2021 1:56:37 PM	5447.37 hours	6	0 %	Low Speed	Start

Aftertreatment Regeneration Speed Type	Aftertreatment Regeneration Trigger Type	ARD Auto Regeneration Enable Status	Regeneration Start Time	Regeneration Trigger Service Hours	Application Regeneration Readiness Status	Aftertreatment Regeneration Trigger Percent Soot	Aftertreatment Regeneration End Speed Type	Aftertreatment Regeneration End Trigger Type
Low Speed	Start	Enabled	11/29/2021 4:44:08 PM	5447.06 hours	6	0 %	Low Speed	Start
Low Speed	Start	Enabled	9/17/2021 1:32:37 PM	5446.55 hours	6	0 %	Low Speed	Start
Low Speed	Start	Enabled	9/17/2021 1:30:49 PM	5446.52 hours	6	0 %	Low Speed	Start
Low Speed	Start	Enabled	9/1/2021 4:50:05 PM	5446.30 hours	6	0 %	Low Speed	Start
Low Speed	Start	Enabled	9/1/2021 4:51:53 PM	5446.30 hours	6	0 %	Low Speed	Start
Low Speed	Start	Enabled	7/16/2021 3:17:33 PM	5445.65 hours	6	0 %	Low Speed	Start
Low Speed	Start	Enabled	7/13/2021 2:07:06 PM	5445.11 hours	6	0 %	Low Speed	Start
Low Speed	Start	Enabled	6/8/2021 2:42:59 PM	5444.13 hours	5	0 %	Low Speed	Start
Low Speed	Start	Enabled	6/8/2021 2:41:12 PM	5444.10 hours	5	0 %	Low Speed	Start
High Speed	Start	Enabled	6/7/2021 1:53:41 PM	5443.99 hours	1	0 %	High Speed	Start
High Speed	Start	Enabled	5/25/2021 1:42:57 PM	5443.58 hours	1	4 %	High Speed	Start
High Speed	Start	Enabled	4/7/2021 1:22:23 PM	5442.20 hours	6	14 %	High Speed	Start

Regeneration End Time	Regeneration Completion Service Hours	Aftertreatment Regeneration End Percent Soot	Aftertreatment Regeneration End Status
4/5/2021 4:05:13 PM	16442.19 hours	14 %	Unsuccessful
9/23/2020 10:04:16 AM	16439.66 hours	12 %	Work
9/23/2020 10:01:32 AM	16439.61 hours	12 %	Unsuccessful
6/29/2020 9:48:14 AM	16438.79 hours	10 %	Unsuccessful
6/25/2020 4:53:19 PM	16438.48 hours	7 %	Complete
4/30/2020 12:23:52 PM	16438.24 hours	12 %	Unsuccessful
4/29/2020 11:12:20 AM	16433.43 hours	0 %	Complete
4/28/2020 2:27:58 PM	16413.99 hours	0 %	Complete
4/28/2020 3:56:32 AM	16404.29 hours	0 %	Complete
4/28/2020 3:08:57 AM	16403.50 hours	78 %	Work
4/27/2020 6:44:49 PM	16395.33 hours	50 %	Work
4/27/2020 11:32:09 AM	16389.73 hours	4 %	Complete

Regeneration End Time	Regeneration Completion Service Hours	Aftertreatment Regeneration End Percent Soot	Aftertreatment Regeneration End Status
4/27/2020 8:09:24 AM	16387.85 hours	2 %	Complete
4/25/2020 3:39:54 AM	16386.13 hours	3 %	Work
4/24/2020 8:21:59 PM	16379.07 hours	63 %	Complete
4/24/2020 7:45:54 AM	16369.89 hours	52 %	Complete
4/23/2020 6:06:04 PM	16364.76 hours	65 %	Complete
4/22/2020 11:34:18 AM	16353.03 hours	0 %	Complete
4/22/2020 6:24:14 AM	16347.87 hours	56 %	Complete
4/21/2020 7:08:15 PM	16346.09 hours	71 %	Complete
4/20/2020 12:36:03 PM	16336.89 hours	50 %	Work
4/20/2020 11:58:04 AM	16336.26 hours	79 %	Work
4/20/2020 6:06:30 AM	16330.49 hours	18 %	Complete
4/17/2020 10:41:25 AM	16327.47 hours	12 %	Work
4/17/2020 7:14:46 AM	16325.44 hours	2 %	Complete
4/17/2020 3:54:34 AM	16324.66 hours	0 %	Complete
2/4/2022 6:12:12 PM	5456.18 hours	0 %	Complete
12/6/2021 2:05:05 PM	5447.51 hours	0 %	Complete
11/29/2021 4:47:47 PM	5447.12 hours	0 %	Work
9/17/2021 1:32:53 PM	5446.55 hours	0 %	Unsuccessful
9/17/2021 1:31:06 PM	5446.52 hours	0 %	Unsuccessful
9/1/2021 4:50:23 PM	5446.30 hours	0 %	Unsuccessful
9/1/2021 4:52:10 PM	5446.30 hours	0 %	Unsuccessful
7/16/2021 3:26:01 PM	5445.79 hours	0 %	Complete
7/13/2021 2:15:36 PM	5445.25 hours	0 %	Complete
6/8/2021 2:51:21 PM	5444.27 hours	0 %	Complete
6/8/2021 2:41:29 PM	5444.11 hours	0 %	Unsuccessful
6/7/2021 1:53:57 PM	5443.99 hours	0 %	Unsuccessful
5/25/2021 1:51:07 PM	5443.64 hours	0 %	Complete
4/7/2021 1:30:40 PM	5442.34 hours	8 %	Complete

Aftertreatment Abnormal Shutdown History - Engine #1 Aftertreatment Controller

Engine Shutdown Type	Engine Shutdown Service Hours	Engine Startup Time After Shutdown Time & Date	Temperature Threshold	Ambient Air Temperature
Hot Shutdown (Above DPF Inlet Temperature Threshold)	16338.30 hours	4/20/2020 2:01:02 PM	518.0 Deg F	63.1 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	16305.35 hours	4/15/2020 8:58:59 PM	518.0 Deg F	55.4 Deg F

Engine Shutdown Type	Engine Shutdown Service Hours	Engine Startup Time After Shutdown Time & Date	Temperature Threshold	Ambient Air Temperature
Hot Shutdown (Above DPF Inlet Temperature Threshold)	16292.36 hours	4/13/2020 9:06:26 PM	518.0 Deg F	66.2 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	16245.03 hours	3/27/2020 7:31:30 AM	518.0 Deg F	44.1 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	16238.65 hours	3/26/2020 7:08:53 AM	518.0 Deg F	34.0 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	16200.60 hours	1/2/2020 8:36:57 AM	518.0 Deg F	30.9 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	16186.08 hours	12/28/2019 8:57:10 AM	518.0 Deg F	44.6 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	16137.42 hours	12/23/2019 8:28:56 AM	518.0 Deg F	39.4 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	16095.70 hours	12/16/2019 2:51:24 PM	518.0 Deg F	39.9 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	16086.68 hours	12/16/2019 5:49:49 AM	518.0 Deg F	31.8 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	16069.17 hours	12/13/2019 12:28:46 AM	518.0 Deg F	43.7 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	16058.04 hours	12/12/2019 11:28:30 AM	518.0 Deg F	36.9 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	16051.38 hours	12/11/2019 2:34:26 PM	518.0 Deg F	36.1 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	15987.25 hours	11/26/2019 6:33:21 AM	518.0 Deg F	47.7 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	15975.41 hours	11/25/2019 6:42:21 PM	518.0 Deg F	53.8 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	15969.74 hours	11/25/2019 12:07:33 PM	518.0 Deg F	57.0 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	15897.43 hours	11/20/2019 2:25:48 PM	518.0 Deg F	51.4 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	15889.72 hours	11/20/2019 6:42:52 AM	518.0 Deg F	41.4 Deg F

Engine Shutdown Type	Engine Shutdown Service Hours	Engine Startup Time After Shutdown Time & Date	Temperature Threshold	Ambient Air Temperature
Threshold)				
Hot Shutdown (Above DPF Inlet Temperature Threshold)	15819.33 hours	11/14/2019 3:01:26 AM	518.0 Deg F	28.2 Deg F
Hot Shutdown (Above DPF Inlet Temperature Threshold)	5445.55 hours	7/16/2021 3:14:03 PM	518.0 Deg F	93.4 Deg F

Diesel Oxidation Catalyst Replacement - Engine #1 Aftertreatment Controller

Description	Value	Unit
Engine Lifetime Hours	16446.3	hours
Total Operating Hours	5457	hours

History Data

No history data available.

Aftertreatment #1 SCR Catalyst Replacement - Engine #1 Aftertreatment Controller

Description	Value	Unit
Engine Lifetime Hours	16446.3	hours
Total Operating Hours	5457	hours

History Data

No history data available.

DPF Ash Service - Engine #1 Aftertreatment Controller

Description	Value	Unit
DPF #1 Ash Service Status	Unavailable	
Engine Lifetime Hours	16446.3	hours
Total Operating Hours	5457	hours
DPF #1 Hours Since Last Ash Service	Unavailable	

Service Tool S/N	Date	SHM	Engine Lifetime Hours	Replacement Type
ET718121	9/28/2019	15206.2 hours	15194.8 hours	Remanufactured
ET697278	4/7/2018	10128.1 hours	10120.0 hours	Remanufactured
ET432034	9/19/2016	5088.5 hours	5085.0 hours	New

Graphical Display (K1Y00439)

Parameter	Value
ECM Part Number	4415131-01
ECM Serial Number	0755G056UU
Software Group Part Number	4682874-00
Software Group Release Date	SEP2014
Software Group Description	MWL_18.451_Sep.11.2014

Logged Diagnostic Codes - Graphical Display (K1Y00439)

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

Logged Event Codes - Graphical Display (K1Y00439)

Code	Description	Occ.	First	Last
No Logged Event Codes				

Active Diagnostic Codes - Graphical Display (K1Y00439)

Code	Description
No Active Diagnostic Codes	

Active Event Codes - Graphical Display (K1Y00439)

Code	Description
No Active Event Codes	

Configuration - Graphical Display (K1Y00439)

Description	Value	Unit
Product ID	K1Y00439	
Service Mode Enable Code	1234	
Display Language Status	English	
Information Units Status	English	
Camera System Installation Status	Installed	
Display System Mode	Unavailable	

Input/Output Module

Parameter	Value
ECM Part Number	2995744-05
ECM Serial Number	0495B009HZ
Software Group Part Number	4805894-00
Software Group Release Date	SEP2015
Software Group Description	Relay Driver Module

Implement 982M (K1Y00439)

Parameter	Value
Product ID	K1Y00439
Equipment ID	982m
ECM Part Number	3656773-04
ECM Serial Number	06456052VD
Software Group Part Number	5507355-00
Software Group Release Date	DEC2017
Software Group Description	982 Implement

Logged Diagnostic Codes [Diagnostic Clock = 5456 hours] - Implement 982M (K1Y00439)

Code	Description	Occ.	First	Last
248- 9	Cat Data Link not communicating	1	5441	5441
800- 9	VIMS Main Module : Abnormal Update Rate	1	5441	5441

Logged Event Codes [Diagnostic Clock = 5456 hours] - Implement 982M (K1Y00439)

Code	Description	Occ.	First	Last
E1388 (1)	Operator Seat Belt Unfastened While Machine is Not Idle	3	5444	5447

Active Diagnostic Codes - Implement 982M (K1Y00439)

Code	Description
248- 9	Cat Data Link not communicating
350-13	Lift Linkage Position Sensor : Out of Calibration
800- 9	VIMS Main Module : Abnormal Update Rate
2183-13	Payload Monitoring System : Out of Calibration

Active Event Codes - Implement 982M (K1Y00439)

Code	Description
E1387 (1)	Operator Seat Belt Unfastened While Machine is Idle

Current Totals - Implement 982M (K1Y00439)

Description	Value	Unit
Load Count	2001	
Lifetime Total Payload Weight	5765323	ton
Total Pass Count	500743	

Configuration - Implement 982M (K1Y00439)

Description	Value	Unit
Product ID	K1Y00439	
Equipment ID	982m	
Secondary Steering Pump Installation Status	Not Installed	
Machine Steering Configuration	Joystick Steering	
Left Steering Angle Limit	39.7	Deg
Right Steering Angle Limit	40.0	Deg
Implement Linkage Configuration	Standard	
Implement Tool Configuration	Bucket	
Lift/Tilt Valve Configuration Code	1	
Loader Lift Linkage Position Sensor Configuration	Rotary Position Sensor	

Description	Value	Unit
Loader Tilt Linkage Position Sensor Configuration	Rotary Position Sensor	
Joystick Installation Status	Installed	
Tilt Function Enable Status	Enabled	
3rd Function Enable Status	Disabled	
4th Function Enable Status	Disabled	
Raise Kickout Enable Status	Enabled	
Lower Kickout Enable Status	Enabled	
Rackback Kickout Enable Status	Enabled	
Dump Kickout Enable Status	Enabled	
Lift Linkage Float Enable Status	Enabled	
Lift Linkage Feather Catch Enable Status	Enabled	
Dump Rate Control Enable Status	Disabled	
Full Rack Angle Control Enable Status	Disabled or Not Installed	
Dump Stop Snubbing Enable Status	Disabled	
Autodig Installation Status	Not Installed	
Raise Snubbing Enable Status	Enabled	
Lower Snubbing Enable Status	Enabled	
Rackback Snubbing Enable Status	Enabled	
Dump Snubbing Enable Status	Disabled	
Raise Solenoid #1 Start Current	0.661	Amps
Raise Solenoid #1 Maximum Current	1.149	Amps
Lower Solenoid #1 Start Current	0.634	Amps
Lower Solenoid #1 Maximum Current	1.270	Amps
Rackback Solenoid #1 Start Current	0.637	Amps
Rackback Solenoid #1 Maximum Current	1.263	Amps
Dump Solenoid #1 Start Current	0.694	Amps
Dump Solenoid #1 Maximum Current	1.121	Amps
3rd Function Rearward Solenoid Start Current	Disabled or Not Installed	Amps
3rd Function Rearward Solenoid Maximum Current	Disabled or Not Installed	Amps
3rd Function Forward Solenoid Start Current	Disabled or Not Installed	Amps
3rd Function Forward Solenoid Maximum Current	Disabled or Not Installed	Amps
4th Function Rearward Solenoid Start Current	Disabled or Not Installed	Amps

Description	Value	Unit
4th Function Rearward Solenoid Maximum Current	Disabled or Not Installed	Amps
4th Function Forward Solenoid Start Current	Disabled or Not Installed	Amps
4th Function Forward Solenoid Maximum Current	Disabled or Not Installed	Amps
Raise Valve Modulation Scale Factor	100.0	%
Lower Valve Modulation Scale Factor	100.0	%
Rackback Valve Modulation Scale Factor	100.0	%
Dump Valve Modulation Scale Factor	100.0	%
Long Range Work Lights #1 Installation Status	Installed	
Beacon Installation Status	Installed	
Heated Side Rear View Mirrors Installation Status	Installed	
Automatic Rear Wiper Enable Status	Disabled	
Operator Seat Belt Monitor Installation Status	Installed	
Ride Control System Installation Status	Installed	
Ride Control Forward Activation Speed	3.0	mph
Ride Control Reverse Activation Speed	6.0	mph
Ride Control Pressure Equalization Time	3	sec
Quick Coupler Installation Status	Not Installed	
Auto Lube System Installation Status	Installed	
Battery Cable Shield Monitoring System Installation	Installed	
Production Measurement Feature Installation Status	Installed	
Production Measurement Feature Temporary Installation Status	Unavailable	
Production Measurement Feature Temporary Installation Time Remaining	0	min
Production Measurement Feature Enable Status	Unavailable	
Payload Control System Calibration Weight	8.600	ton
Loader Bucket Payload Target Weight	12.0	ton
Automatic Truck ID Feature	Not Enabled	
Automatic Material ID Feature	Not Enabled	
Tip-Off Mode	Disabled	
Payload Lift Cylinder Maximum Velocity	1.5	

Description	Value	Unit
Configuration		
Payload Lift Speed Skew Limit Configuration	Medium	
Payload Weigh Activate Lift Position	50.0	%
Payload Weigh Range Configuration	15.0	%
Payload Overload Warning Enable	Disabled	

Tool Configuration - Implement 982M (K1Y00439)

Description	Value	Unit
No Tools Available		

Transmission 982M (ECS00572)

Parameter	Value
Product ID	K1Y00439
Equipment ID	982m
Transmission Serial Number	ECS00572
ECM Part Number	4559584-01
ECM Serial Number	15787068WF
Software Group Part Number	5612091-00
Software Group Release Date	MAR2018
Software Group Description	982 Transmission
Active Diagnostic Codes Present	No

Logged Diagnostic Codes [Diagnostic Clock = 5456 hours] - Transmission 982M (ECS00572)

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

Logged Event Codes [Diagnostic Clock = 5456 hours] - Transmission 982M (ECS00572)

Code	Description	Occ.	First	Last
No Logged Event Codes				

Active Diagnostic Codes - Transmission 982M (ECS00572)

Code	Description
No Active Diagnostic Codes	

Active Event Codes - Transmission 982M (ECS00572)

Code	Description
No Active Event Codes	

Current Totals - Transmission 982M (ECS00572)

Description	Value	Unit
Total Forward Distance	44088.32	Miles
Total Neutral Gear Operating Hours	5021	hours

Description	Value	Unit
Total Hours Coasting In Neutral	0	hours
Total Distance Coasting In Neutral	0.8	Miles
Total Number of Coasting in Neutral Occurrences	2	
Total Number of Coasting in Neutral Protection Active Occurrences	37	
Total Hours Coasting in Neutral Protection Active	0.148	hours
Total Distance Coasting in Neutral Protection Active	15.5	Miles
Total Reverse Distance	9980.90	Miles
Total Powertrain Oil Filter Bypass Hours	0.00	hours

Configuration - Transmission 982M (ECS00572)

Description	Value	Unit
Transmission Serial Number	ECS00572	
Lockup Clutch Installation Status	Installed	
Transmission Maximum Forward Gear	4	
Transmission Maximum Reverse Gear	3	
Forward to Reverse Desired Gear	2	
Reverse to Forward Desired Gear	2	
Ground Speed Limiter Installation Status	Not Installed	
Operator Requested Forward Machine Speed Limit	24.9	mph
Operator Requested Reverse Machine Speed Limit	24.9	mph
CTS Enabled	Enabled	
Tire Rolling Radius	886	mm
Economy Mode	Off	
Integrated Braking System Manual Mode Enable Status	Enabled	
Level Operation Neutralization Offset Setpoint	2.0	%
Moderate Slope Operation Neutralization Offset Setpoint	6.0	%
Aggressive Slope Operation Neutralization Offset Setpoint	10.0	%
Transmission Neutralizer Operation Mode Power Up Default Configuration	Unavailable	
Axle Oil Cooler Installation Status	Installed	
Advanced Machine Security System Installation Status	Not Installed	

Description	Value	Unit
Operator Identification Enable Status	Disabled	
Operator Management Radio Frequency Identification Device Enabled Status	Disabled	
Tire Monitoring System Installation Status	Not Installed	
Left Front Tire Pressure/Temperature Sensor Identification Number		
Right Front Tire Pressure/Temperature Sensor Identification Number		
Left Rear Tire Pressure/Temperature Sensor Identification Number		
Right Rear Tire Pressure/Temperature Sensor Identification Number		
Auto Lube System Installation Status	Not Installed	
Lubrication Cycle Set Command	Cycle Mode #2	
Lubrication Operation Mode Set Command	Automatic	
DEF Level Full Alarm Enable Status	Enabled	
EngineerDataEnble	Disabled	

Lifetime:Time vs Torque Converter Outlet Temperature - Transmission 982M (ECS00572)

Torque Converter Outlet Temperature(Deg F)	hours	%
<140.0	590.60	11.64
140.0-148.9	983.70	19.38
149.0-157.9	1525.75	30.06
158.0-166.9	1415.65	27.90
167.0-175.9	483.80	9.53
176.0-184.9	67.15	1.32
185.0-193.9	7.30	0.14
194.0-202.9	0.80	0.02
203.0-211.9	0.10	0.00
212.0-220.9	0.00	0.00
221.0-229.9	0.00	0.00
230.0-238.9	0.00	0.00
239.0-247.9	0.00	0.00
248.0-256.9	0.00	0.00
257.0-265.9	0.00	0.00
266.0-274.9	0.00	0.00
275.0-283.9	0.00	0.00

Torque Converter Outlet Temperature(Deg F)	hours	%
284.0-293.0	0.00	0.00
>293.0	0.00	0.00

Lifetime:Time vs Front Axle Oil Temperature - Transmission 982M (ECS00572)

Front Axle Oil Temperature(Deg F)	hours	%
<32.0	3.20	0.06
32.0-40.9	15.10	0.30
41.0-49.9	20.55	0.40
50.0-58.9	32.70	0.64
59.0-67.9	44.15	0.87
68.0-76.9	66.05	1.30
77.0-85.9	105.20	2.07
86.0-94.9	131.85	2.59
95.0-103.9	189.50	3.73
104.0-112.9	292.65	5.76
113.0-121.9	414.90	8.16
122.0-130.9	549.30	10.81
131.0-139.9	736.05	14.48
140.0-148.9	856.70	16.86
149.0-157.9	1143.25	22.50
158.0-166.9	319.35	6.28
167.0-175.9	99.80	1.96
176.0-184.9	46.45	0.91
185.0-193.9	12.95	0.25
194.0-202.9	2.20	0.04
203.0-211.9	0.15	0.00
212.0-220.9	0.00	0.00
221.0-229.9	0.00	0.00
230.0-238.9	0.00	0.00
239.0-247.9	0.00	0.00
248.0-256.9	0.00	0.00
257.0-265.9	0.00	0.00
266.0-275.0	0.00	0.00
>275.0	0.00	0.00

Lifetime:Time vs Rear Axle Oil Temperature - Transmission 982M (ECS00572)

Rear Axle Oil Temperature(Deg F)	hours	%
<32.0	3.05	0.06
32.0-40.9	12.60	0.25
41.0-49.9	18.75	0.37
50.0-58.9	29.80	0.59
59.0-67.9	41.35	0.81
68.0-76.9	46.90	0.92
77.0-85.9	75.85	1.49
86.0-94.9	97.25	1.91
95.0-103.9	118.70	2.34
104.0-112.9	184.10	3.62
113.0-121.9	254.95	5.02
122.0-130.9	376.30	7.40
131.0-139.9	489.90	9.64
140.0-148.9	688.35	13.54
149.0-157.9	896.00	17.63
158.0-166.9	1351.70	26.60
167.0-175.9	249.55	4.91
176.0-184.9	84.35	1.66
185.0-193.9	45.90	0.90
194.0-202.9	14.50	0.29
203.0-211.9	1.85	0.04
212.0-220.9	0.40	0.01
221.0-229.9	0.00	0.00
230.0-238.9	0.00	0.00
239.0-247.9	0.00	0.00
248.0-256.9	0.00	0.00
257.0-265.9	0.00	0.00
266.0-275.0	0.00	0.00
>275.0	0.00	0.00

Lifetime:Time vs Ground Speed - Transmission 982M (ECS00572)

Ground Speed(mph)	hours	%
<0.5	385.45	11.09
0.5-1.9	666.40	19.17
2.0-3.4	470.75	13.54
3.5-4.9	499.50	14.37
5.0-6.4	359.15	10.33

Ground Speed(mph)	hours	%
6.5-7.9	265.55	7.64
8.0-9.4	277.65	7.99
9.5-10.9	244.10	7.02
11.0-12.4	171.55	4.93
12.5-13.9	133.85	3.85
14.0-15.4	1.75	0.05
15.5-16.9	0.45	0.01
17.0-18.4	0.15	0.00
18.5-19.9	0.00	0.00
20.0-21.4	0.00	0.00
21.5-22.9	0.00	0.00
23.0-24.4	0.00	0.00
24.5-25.9	0.00	0.00
26.0-27.4	0.00	0.00
27.5-28.9	0.00	0.00
29.0-30.4	0.00	0.00
30.5-31.9	0.00	0.00
32.0-33.4	0.00	0.00
33.5-35.0	0.00	0.00
>35.0	0.00	0.00

Lifetime:Time vs Torque Converter Speed Ratio - Transmission 982M (ECS00572)

Torque Converter Speed Ratio()	hours	%
<0.000	0.00	0.00
0.000-0.099	274.85	7.91
0.100-0.199	117.90	3.39
0.200-0.299	147.75	4.25
0.300-0.399	175.50	5.05
0.400-0.499	194.70	5.60
0.500-0.599	231.60	6.66
0.600-0.699	253.50	7.29
0.700-0.799	269.00	7.74
0.800-0.899	400.30	11.52
0.900-0.999	769.40	22.13
1.000-1.099	456.20	13.12
1.100-1.199	64.55	1.86
1.200-1.299	43.50	1.25

Torque Converter Speed Ratio()	hours	%
1.300-1.399	30.10	0.87
1.400-1.499	20.40	0.59
1.500-1.599	13.35	0.38
1.600-1.699	7.40	0.21
1.700-1.800	3.65	0.11
>1.800	2.50	0.07

Ground Speed at Directional Shift Occurrences - Transmission 982M (ECS00572)

Ground Speed(mph)	Count	%
<0.5	194796	48.65
0.5-1.4	96672	24.15
1.5-2.4	49589	12.39
2.5-3.4	31135	7.78
3.5-4.4	17009	4.25
4.5-5.4	7150	1.79
5.5-6.4	3179	0.79
6.5-7.4	657	0.16
7.5-8.4	136	0.03
8.5-9.4	31	0.01
9.5-10.4	5	0.00
10.5-11.4	5	0.00
11.5-12.4	0	0.00
12.5-13.4	0	0.00
13.5-14.4	0	0.00
14.5-15.4	0	0.00
15.5-16.4	0	0.00
16.5-17.4	0	0.00
17.5-18.4	0	0.00
18.5-19.4	0	0.00
19.5-20.4	0	0.00
20.5-21.5	0	0.00
>21.5	0	0.00

Shift Count Matrix [Diagnostic Clock = 5456.7591 hours] - Transmission 982M (ECS00572)

To	N	R1	R2	R3	R4	1	2	3	4
From									
N	---	98	14281	28	3	99	23727	36	18
R1	84	---	415	123	0	446	1157	4	0

To	N	R1	R2	R3	R4	1	2	3	4
R2	15755	1326	---	82889	0	2192	262547	85	0
R3	1608	174	26969	---	0	39	54314	47	0
R4	2	0	0	0	---	0	0	0	1
1	3909	548	161661	47	0	---	1831	671	0
2	14397	69	155986	33	0	100804	---	269619	171
3	2513	14	5474	25	0	65029	196494	---	2184
4	20	0	8	6	0	58	1011	1271	---

C13 982 (T4F03099)

Parameter	Value
Equipment ID	982m
Engine Serial Number	T4F03099
ECM Part Number	4176013-00
ECM Serial Number	05656011QM
Software Group Part Number	5657273-00
Software Group Release Date	JUL18
Software Group Description	MWL 980/982 PS
Operator Inducement Regulation Configuration	Worldwide

Logged Diagnostic Codes [Diagnostic Clock = 5456 hours] - C13 982 (T4F03099)

Code	Description	Occ.	First	Last
No Logged Diagnostic Codes				

Logged Event Codes [Diagnostic Clock = 5456 hours] - C13 982 (T4F03099)

Code	Description	Occ.	First	Last
E1217 (3)	Delayed Engine Shutdown Override	1	5445	5445

Active Diagnostic Codes - C13 982 (T4F03099)

Code	Description
No Active Diagnostic Codes	

Active Event Codes - C13 982 (T4F03099)

Code	Description
No Active Event Codes	

System Communication Status - Active Problems - C13 982 (T4F03099)

ECMs	Detected Problem	Data Link	Diagnostic Information
No issues were reported			

System Communication Status - Inactive Problems - C13 982 (T4F03099)

ECMs	Detected Problem	Data Link	Diagnostic Information
No issues were reported			

Current Totals - C13 982 (T4F03099)

Description	Value	Unit
Total Idle Time	4985:06	hours
Total Fuel	103488	gal
Total Engine #1 Fuel	101694	gal
Total Idle Fuel	5663	gal
Total Max Fuel	374209	gal
Engine Lifetime Hours	16446.3	hours
Average Load Factor	26	%
Engine Starts	4746	
Lifetime Total Engine Revolutions	1212323796	rev
Total Operating Hours	5457	hours
Operator Inducement Emergency Override Total Activations	0	
Operator Inducement Emergency Override Total Resets	0	
Total Engine Idle Shutdown Count	0	
Total Engine Idle Shutdown Overrides Count	0	
Total Delayed Engine Shutdown Count	2144	
Total Delayed Engine Shutdown Overrides Count	50	
Starts/Hour	0.29	
Average RPM	1228.57	rpm
Percentage Idle Time	30.31	%
Average Fuel Rate	6.29	gal/h
Overall Load Factor	27	%
SCR Operator Inducement Emergency Override Total Activation Time	0	sec

Configuration - C13 982 (T4F03099)

Description	Value	Unit
Equipment ID	982m	
Engine Serial Number	T4F03099	
ECM Part Number	4176013-00	
ECM Serial Number	05656011QM	
Software Group Part Number	5657273-00	
Software Group Release Date	JUL18	
Software Group Description	MWL 980/982 PS	
Rating Number	2	

Description	Value	Unit
Rated Power	430 hp at 1700 rpm	
Rated Peak Torque	1609 lb-ft at 1200 rpm	
Ether Solenoid Configuration	Continuous Flow Solenoid	
Crankcase Pressure Sensor Installation Status	Installed	
Ambient Air Temperature Sensor Installation Status	Not Installed	
Fuel/Water Separator Switch Installation Status	Installed	
Low System Battery Voltage Elevated Idle	Enabled	
Engine Coolant Dual Pressure Sensors Installation Status	Not Installed	
Engine Warm Up Elevated Idle Feature Enable Status	Enabled	
Transmission Engaged Engine Low Idle Speed Configuration	800	rpm
Machine Working Engine Low Idle Speed Configuration	800.0	rpm
Machine Hibernating Engine Low Idle Speed Configuration	650.0	rpm
Engine Idle Shutdown Enable Status	Disabled	
Engine Idle Shutdown Delay Time	5.0	min
Delayed Engine Shutdown Enable Status	Enabled	
Delayed Engine Shutdown Maximum Time	15.0	min
Engine Fan Reversing Feature	Disabled	
Engine Fan Purge Cycle Interval	1200	sec
Engine Fan Purge Cycle Duration	25.0	sec
ARD Manual Disable Status	Not Disabled	
High Soot Load Aftertreatment Protection Enable Status	Enabled	
Operator Inducement Progress Configuration	Reduced Performance	
Operator Inducement Regulation Configuration	Worldwide	
Operator Inducement Emergency Override Enable Status	Disabled	
Operator Inducement Emergency Override Activation	Not Activated	
Operator Final Inducement Action	Shutdown	
Delayed Engine Shutdown	518.0	Deg F

Description	Value	Unit
Aftertreatment Gas Temperature Threshold		
Aftertreatment #1 DEF Quality Sensor Installation Status	Not Installed	
DPF Type	Type 1	
FLS	28	
FTS	-33	
CAN Communication Protocol Write Security	Seed and Key Access	
CAN Communication Protocol Read Security	Seed and Key Access	
Total Tattletale	21	

Lifetime:Accumulated Time vs Intake Manifold Pressure - C13 982 (T4F03099)

Intake Manifold Pressure(psi)	hours	%
<11.603	1.15	0.13
11.603-13.052	3.35	0.38
13.053-14.503	7.50	0.85
14.504-15.953	12.05	1.37
15.954-17.404	15.50	1.76
17.405-18.854	19.30	2.19
18.855-20.304	27.05	3.07
20.305-21.755	39.25	4.46
21.756-23.205	53.85	6.11
23.206-24.655	71.35	8.10
24.656-26.106	98.10	11.14
26.107-27.556	131.40	14.92
27.557-29.007	162.70	18.47
29.008-30.457	158.20	17.96
30.458-31.907	72.00	8.17
31.908-33.358	7.75	0.88
33.359-34.808	0.25	0.03
34.809-36.258	0.00	0.00
36.259-37.709	0.00	0.00
37.710-39.159	0.00	0.00
39.160-40.610	0.00	0.00
40.611-42.060	0.00	0.00
42.061-43.510	0.00	0.00
43.511-44.961	0.00	0.00

Intake Manifold Pressure(psi)	hours	%
44.962-46.411	0.00	0.00
46.412-47.861	0.00	0.00
47.862-49.312	0.00	0.00
49.313-50.762	0.00	0.00
50.763-52.213	0.00	0.00
52.214-53.663	0.00	0.00
53.664-55.113	0.00	0.00
55.114-56.564	0.00	0.00
56.565-58.014	0.00	0.00
58.015-59.464	0.00	0.00
59.465-60.915	0.00	0.00
60.916-62.365	0.00	0.00
62.366-63.816	0.00	0.00
63.817-65.266	0.00	0.00
65.267-66.716	0.00	0.00
66.717-68.167	0.00	0.00
68.168-69.617	0.00	0.00
69.618-71.067	0.00	0.00
71.068-72.518	0.00	0.00
72.519-73.968	0.00	0.00
73.969-75.419	0.00	0.00
75.420-76.869	0.00	0.00
76.870-78.319	0.00	0.00
78.320-79.770	0.00	0.00
79.771-81.220	0.00	0.00
81.221-82.670	0.00	0.00
82.671-84.121	0.00	0.00
84.122-85.571	0.00	0.00
85.572-87.023	0.00	0.00
>87.023	0.00	0.00

Lifetime:Accumulated Time vs Engine Coolant Temperature - C13 982 (T4F03099)

Engine Coolant Temperature(Deg F)	hours	%
<32.00	0.55	0.00
32.00-40.99	0.00	0.00
41.00-49.99	0.20	0.00
50.00-58.99	1.15	0.01

Engine Coolant Temperature(Deg F)	hours	%
59.00-67.99	2.70	0.02
68.00-76.99	5.30	0.04
77.00-85.99	14.55	0.10
86.00-94.99	30.55	0.21
95.00-103.99	39.00	0.27
104.00-112.99	64.20	0.44
113.00-121.99	91.45	0.63
122.00-130.99	117.15	0.81
131.00-139.99	147.55	1.02
140.00-148.99	204.95	1.41
149.00-157.99	269.75	1.86
158.00-166.99	381.70	2.63
167.00-175.99	1198.45	8.26
176.00-184.99	8011.35	55.21
185.00-193.99	3030.00	20.88
194.00-202.99	897.60	6.19
203.00-211.99	3.00	0.02
212.00-220.99	0.00	0.00
221.00-229.99	0.05	0.00
230.00-238.99	0.00	0.00
239.00-247.99	0.00	0.00
248.00-256.99	0.00	0.00
257.00-265.99	0.00	0.00
266.00-274.99	0.00	0.00
275.00-283.99	0.00	0.00
284.00-292.99	0.00	0.00
293.00-302.00	0.00	0.00
>302.00	0.00	0.00

Engine Overspeed Histogram: Accumulated Time (sec) vs Engine Speed - C13 982 (T4F03099)

Engine Speed(rpm)	Count	%
2500.0-2599.9	417	98.58
2600.0-2699.9	6	1.42
2700.0-2799.9	0	0.00
2800.0-2899.9	0	0.00
2900.0-2999.9	0	0.00
3000.0-3099.9	0	0.00

Engine Speed(rpm)	Count	%
3100.0-3199.9	0	0.00
3200.0-3299.9	0	0.00
3300.0-3400.0	0	0.00
>3400.0	0	0.00

Lifetime:Accumulated Time vs Engine Speed And Percent Engine Load at Current Engine Speed - C13 982 (T4F03099)

rpm	<600.0	600.0-649.9	650.0-699.9	700.0-749.9	750.0-799.9	800.0-849.9	850.0-899.9	900.0-949.9	950.0-999.9
%									
<0.0	0.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.0-9.9	0.20	1090.30	1109.45	11.65	623.35	849.75	104.25	81.90	87.40
10.0-19.9	0.40	6.85	4.95	23.20	216.05	337.25	66.95	48.55	48.80
20.0-29.9	0.40	0.90	3.95	27.75	82.15	74.05	38.45	35.30	37.05
30.0-39.9	0.30	0.75	3.50	16.60	40.30	41.90	27.40	27.10	28.90
40.0-49.9	0.30	0.60	2.50	9.40	28.15	29.35	18.45	17.80	19.90
50.0-59.9	0.25	0.55	1.70	6.25	18.15	17.90	10.55	10.85	12.75
60.0-69.9	0.30	0.45	1.10	3.55	7.90	6.90	5.35	5.75	6.20
70.0-79.9	0.35	0.40	0.70	1.40	2.00	1.85	1.80	1.90	2.00
80.0-89.9	0.35	0.25	0.35	0.40	0.45	0.50	0.55	0.60	0.65
90.0-100.0	0.10	0.10	0.10	0.10	0.10	0.15	0.15	0.20	0.25
>100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	3.45	1101.15	1128.30	100.30	1018.60	1359.60	273.90	229.95	243.90

Lifetime:Accumulated Time vs Engine Speed And Percent Engine Load at Current Engine Speed - C13 982 (T4F03099)

rpm	1000.0-1049.9	1050.0-1099.9	1100.0-1149.9	1150.0-1199.9	1200.0-1249.9	1250.0-1299.9	1300.0-1349.9	1350.0-1399.9	1400.0-1449.9
%									
<0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.0-9.9	89.50	144.50	156.00	80.65	75.15	71.50	69.55	69.80	63.85
10.0-19.9	49.15	52.85	50.40	47.80	46.30	45.10	46.70	47.25	42.70
20.0-29.9	41.40	63.70	71.50	61.25	60.75	61.00	64.90	62.35	55.05
30.0-39.9	32.45	43.15	44.75	42.90	44.30	48.45	58.00	69.05	74.95
40.0-49.9	23.00	28.70	32.70	33.65	34.45	37.00	42.10	47.00	51.35
50.0-59.9	15.85	21.20	24.70	27.35	29.70	32.15	35.35	37.50	39.30
60.0-69.9	7.25	9.55	11.30	13.15	15.10	18.15	22.50	26.60	31.00
70.0-79.9	2.25	2.75	3.40	4.05	4.70	5.40	6.70	8.40	11.25
80.0-89.9	0.70	0.90	1.10	1.40	1.70	2.25	3.15	4.60	7.00
90.0-100.0	0.35	0.60	0.90	1.25	1.80	2.55	3.75	5.55	8.05
>100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	261.90	367.90	396.75	313.45	313.95	323.55	352.70	378.10	384.50

Lifetime:Accumulated Time vs Engine Speed And Percent Engine Load at Current Engine Speed - C13 982 (T4F03099)

rpm	1450.0-1499.9	1500.0-1549.9	1550.0-1599.9	1600.0-1649.9	1650.0-1699.9	1700.0-1749.9	1750.0-1799.9	1800.0-1849.9	1850.0-1899.9	1900.0-1949.9
%										
<0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.0-9.9	56.50	54.05	49.30	45.50	43.05	41.55	39.85	38.45	37.55	36.65
10.0-19.9	37.80	34.05	28.70	23.80	19.15	16.55	14.85	13.40	12.25	11.10
20.0-29.9	48.40	42.90	35.00	26.75	20.65	17.70	16.25	14.60	12.00	10.40
30.0-39.9	78.10	74.20	57.10	40.30	30.95	27.50	22.75	17.25	13.15	11.55
40.0-49.9	59.90	70.40	73.50	60.30	43.30	31.65	24.05	18.65	15.05	13.45
50.0-59.9	42.00	46.50	50.15	50.70	47.30	41.45	33.60	24.60	18.45	16.85
60.0-69.9	33.95	36.10	35.75	34.70	33.35	31.55	31.10	29.35	22.95	21.35
70.0-79.9	15.60	20.70	24.30	26.25	28.05	29.30	30.50	31.50	32.65	33.80
80.0-89.9	11.20	19.85	24.05	25.25	33.40	49.50	48.70	49.15	56.90	56.10
90.0-100.0	10.20	15.60	46.70	76.45	92.95	94.35	104.80	107.65	107.40	107.20
>100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	393.65	414.35	424.55	410.00	392.15	381.10	366.45	344.60	328.35	317.10

Lifetime:Accumulated Time vs Engine Speed And Percent Engine Load at Current Engine Speed - C13 982 (T4F03099)

rpm	1900.0-1949.9	1950.0-1999.9	2000.0-2049.9	2050.0-2099.9	2100.0-2149.9	2150.0-2199.9	2200.0-2249.9	2250.0-2299.9	2300.0-2349.9	2350.0-2399.9
%										
<0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
0.0-9.9	34.50	32.50	30.45	27.95	22.30	19.90	29.10	31.25	14.40	12.00
10.0-19.9	10.90	8.85	6.85	5.45	4.55	6.65	17.40	10.60	1.75	1.10
20.0-29.9	9.85	8.15	6.75	5.65	5.05	10.80	21.90	12.40	1.85	1.10
30.0-39.9	10.35	8.30	6.65	5.70	6.20	14.35	19.25	11.45	1.55	1.10
40.0-49.9	12.75	10.70	9.10	7.90	7.45	11.75	15.55	10.50	1.55	1.10
50.0-59.9	15.10	12.90	11.05	10.05	9.80	13.10	16.45	10.20	1.75	1.10
60.0-69.9	16.35	13.60	12.05	10.95	10.10	12.60	15.65	10.00	1.85	1.10
70.0-79.9	31.90	29.65	23.45	16.70	12.05	12.85	13.90	8.70	1.45	1.10
80.0-89.9	83.35	112.25	67.80	28.90	22.55	17.65	15.65	7.75	1.10	1.10
90.0-100.0	86.85	50.05	22.25	10.15	12.25	19.40	15.65	6.70	1.10	1.10
>100.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	311.90	286.95	196.40	129.40	112.30	139.05	180.50	119.55	28.35	28.35

Lifetime:Accumulated Time vs Engine Speed And Percent Engine Load at Current Engine Speed - C13 982 (T4F03099)

rpm	2350.0-2400.0	>2400.0	Total
%			
<0.0	0.00	0.00	0.50
0.0-9.9	5.95	2.55	5435.40

rpm	2350.0-2400.0	>2400.0	Total
10.0-19.9	0.25	0.05	1455.10
20.0-29.9	0.20	0.00	1158.75
30.0-39.9	0.15	0.00	1090.00
40.0-49.9	0.10	0.00	940.55
50.0-59.9	0.10	0.00	797.30
60.0-69.9	0.10	0.00	584.15
70.0-79.9	0.05	0.00	450.85
80.0-89.9	0.05	0.00	701.95
90.0-100.0	0.05	0.00	906.60
>100.0	0.00	0.00	0.00
Total	7.00	2.60	13521.15

Lifetime:Accumulated Time vs Intake Manifold Air Temperature - C13 982 (T4F03099)

Intake Manifold Air Temperature(Deg F)	hours	%
<32.00	31.55	0.22
32.00-40.99	63.05	0.43
41.00-49.99	179.20	1.23
50.00-58.99	385.70	2.66
59.00-67.99	651.70	4.49
68.00-76.99	918.15	6.33
77.00-85.99	1285.30	8.86
86.00-94.99	1584.40	10.92
95.00-103.99	1845.80	12.72
104.00-112.99	1946.50	13.41
113.00-121.99	1935.55	13.34
122.00-130.99	1686.75	11.62
131.00-139.99	1231.50	8.49
140.00-148.99	589.40	4.06
149.00-157.99	149.90	1.03
158.00-166.99	17.80	0.12
167.00-175.99	3.45	0.02
176.00-184.99	4.20	0.03
185.00-193.99	0.20	0.00
194.00-202.99	0.15	0.00
203.00-211.99	0.15	0.00
212.00-220.99	0.10	0.00

Intake Manifold Air Temperature(Deg F)	hours	%
221.00-229.99	0.10	0.00
230.00-238.99	0.10	0.00
239.00-248.00	0.05	0.00
>248.00	0.45	0.00

High Exhaust Temperature Prevention Derate Time - C13 982 (T4F03099)

Deg F	<104.00	104.00-112.99	113.00-121.99	122.00-130.99	131.00-139.99	140.00-148.99	149.00-157.99	158.00-166.99	167.00-175.99
psi									
<8.702	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8.702-9.862	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9.863-11.022	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11.023-12.182	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12.183-13.342	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13.343-14.504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>14.504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

High Exhaust Temperature Prevention Derate Time - C13 982 (T4F03099)

Deg F	176.00-184.99	185.00-193.99	194.00-202.99	203.00-212.00	>212.00	Total
psi						
<8.702	0.00	0.00	0.00	0.00	0.00	0.00
8.702-9.862	0.00	0.00	0.00	0.00	0.00	0.00
9.863-11.022	0.00	0.00	0.00	0.00	0.00	0.00
11.023-12.182	0.00	0.00	0.00	0.00	0.00	0.00
12.183-13.342	0.00	0.00	0.00	0.00	0.00	0.00
13.343-14.504	0.00	0.00	0.00	0.00	0.00	0.00
>14.504	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00

Lifetime:Accumulated Time vs Engine Speed - C13 982 (T4F03099)

Engine Speed(rpm)	hours	%
<550.0	1.55	0.01
550.0-599.9	2.15	0.01
600.0-649.9	1211.30	8.35
650.0-699.9	1233.80	8.50
700.0-749.9	104.45	0.72
750.0-799.9	1180.90	8.14
800.0-849.9	1549.30	10.68

Engine Speed(rpm)	hours	%
850.0-899.9	286.15	1.97
900.0-949.9	239.50	1.65
950.0-999.9	261.70	1.80
1000.0-1049.9	283.10	1.95
1050.0-1099.9	403.55	2.78
1100.0-1149.9	434.65	3.00
1150.0-1199.9	329.65	2.27
1200.0-1249.9	329.10	2.27
1250.0-1299.9	338.60	2.33
1300.0-1349.9	368.20	2.54
1350.0-1399.9	395.70	2.73
1400.0-1449.9	402.50	2.77
1450.0-1499.9	411.15	2.83
1500.0-1549.9	431.85	2.98
1550.0-1599.9	444.85	3.07
1600.0-1649.9	428.95	2.96
1650.0-1699.9	406.85	2.80
1700.0-1749.9	394.90	2.72
1750.0-1799.9	379.25	2.61
1800.0-1849.9	356.60	2.46
1850.0-1899.9	339.90	2.34
1900.0-1949.9	322.75	2.22
1950.0-1999.9	295.45	2.04
2000.0-2049.9	201.75	1.39
2050.0-2099.9	133.40	0.92
2100.0-2149.9	115.85	0.80
2150.0-2199.9	142.65	0.98
2200.0-2249.9	186.15	1.28
2250.0-2299.9	124.00	0.85
2300.0-2349.9	29.15	0.20
2350.0-2399.9	7.20	0.05
2400.0-2449.9	2.15	0.01
2450.0-2499.9	0.50	0.00
2500.0-2549.9	0.10	0.00
2550.0-2599.9	0.00	0.00
2600.0-2649.9	0.00	0.00

Engine Speed(rpm)	hours	%
2650.0-2699.9	0.00	0.00
2700.0-2749.9	0.00	0.00
2750.0-2799.9	0.00	0.00
2800.0-2849.9	0.00	0.00
2850.0-2899.9	0.00	0.00
2900.0-2949.9	0.00	0.00
2950.0-2999.9	0.00	0.00
3000.0-3049.9	0.00	0.00
3050.0-3099.9	0.00	0.00
3100.0-3149.9	0.00	0.00
3150.0-3199.9	0.00	0.00
3200.0-3249.9	0.00	0.00
3250.0-3299.9	0.00	0.00
3300.0-3349.9	0.00	0.00
3350.0-3400.0	0.00	0.00
>3400.0	0.00	0.00

Lifetime:Accumulated Time vs Air Inlet Temperature - C13 982 (T4F03099)

Air Inlet Temperature(Deg F)	hours	%
<(-4.00)	0.55	0.00
(-4.00)-4.99	0.00	0.00
5.00-13.99	0.00	0.00
14.00-22.99	6.75	0.05
23.00-31.99	67.20	0.46
32.00-40.99	239.10	1.65
41.00-49.99	806.55	5.56
50.00-58.99	1570.05	10.82
59.00-67.99	2033.20	14.01
68.00-76.99	2407.15	16.59
77.00-85.99	3106.00	21.40
86.00-94.99	2669.20	18.39
95.00-103.99	1310.60	9.03
104.00-112.99	271.10	1.87
113.00-121.99	22.35	0.15
122.00-130.99	1.10	0.01
131.00-139.99	0.05	0.00
140.00-148.99	0.00	0.00

Air Inlet Temperature(Deg F)	hours	%
149.00-157.99	0.00	0.00
158.00-166.99	0.00	0.00
167.00-176.00	0.00	0.00
>176.00	0.00	0.00

High Turbo Speed Prevention Derate Time - C13 982 (T4F03099)

Deg F	<41.00	41.00-58.99	59.00-76.99	77.00-94.99	95.00-112.99	113.00-130.99	131.00-149.00	149.00	Total
psi									
<8.702	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8.702-9.862	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9.863-11.023	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11.023-12.183	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12.183-13.343	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13.343-14.504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
>14.504	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Lifetime:Accumulated Time vs DPF #1 Soot Loading Percent And ARD Manual Disable Status - C13 982 (T4F03099)

%	<40	40-49	50-59	60-69	70-79	80-89	90-99	100-109	110-119
ARD Manual Disable Status									
0	5020.20	1929.30	2330.90	2393.75	2774.30	129.95	2.25	0.35	0.35
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	5020.20	1929.30	2330.90	2393.75	2774.30	129.95	2.25	0.35	0.35

Lifetime:Accumulated Time vs DPF #1 Soot Loading Percent And ARD Manual Disable Status - C13 982 (T4F03099)

%	120-129	130-140	>140	Total
ARD Manual Disable Status				
0	0.25	0.85	0.00	14582.45
1	0.00	0.00	0.00	0.00
Total	0.25	0.85	0.00	14582.45

Injector Trim Calibration - C13 982 (T4F03099)

Injector	Serial Number	File Version
Injector1	000000005C00298078DC	9
Injector2	000000005C00298072EA	9
Injector3	000000005C00298114ED	9
Injector4	000000005C00298104F8	9

Injector	Serial Number	File Version
Injector5	000000005C00298137CE	9
Injector6	000000005C00298115EA	9

Monitoring System - C13 982 (T4F03099)

Description	State	Trip Point	Delay Time
Engine Overspeed			
Least Severe (1)	Always On	2600 rpm	0 sec
Most Severe (3)	Always On	2800 rpm	0 sec
High Air Inlet #1 Differential Pressure			
Least Severe (1)	Always On	0.9 psi	0 sec
Moderate Severity (2)	Always On	0.9 psi	0 sec
High Engine Coolant Temperature			
Least Severe (1)	Always On	228 Deg F	10 sec
Moderate Severity (2)	Always On	232 Deg F	20 sec
High Fuel Temperature			
Moderate Severity (2)	Always On	174.2 Deg F	30 sec
High Fuel/Water Separator Water Level			
Least Severe (1)	Always On	None	40 sec
Moderate Severity (2)	Always On	None	3600 sec
High Intake Manifold Air Temperature			
Least Severe (1)	Always On	239.0 Deg F	4 sec
Moderate Severity (2)	Always On	248.0 Deg F	4 sec
Low Engine Oil Pressure			
Least Severe (1)	Always On	None	8 sec
Most Severe (3)	Always On	None	4 sec

Indication Display

Parameter	Value
ECM Part Number	3743614-02
ECM Serial Number	0685D025DT
Software Group Part Number	4488243-00
Software Group Release Date	AUG2013
Software Group Description	Indication Display

File Attachments				
Name	Size	Modified	Title	Description
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20220426_053650.jpg	2867575	4/26/2022 5:36 AM		
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20220426_053930.jpg	2454934	4/26/2022 5:39 AM		
20220426_053938.jpg	2316951	4/26/2022 5:39 AM		
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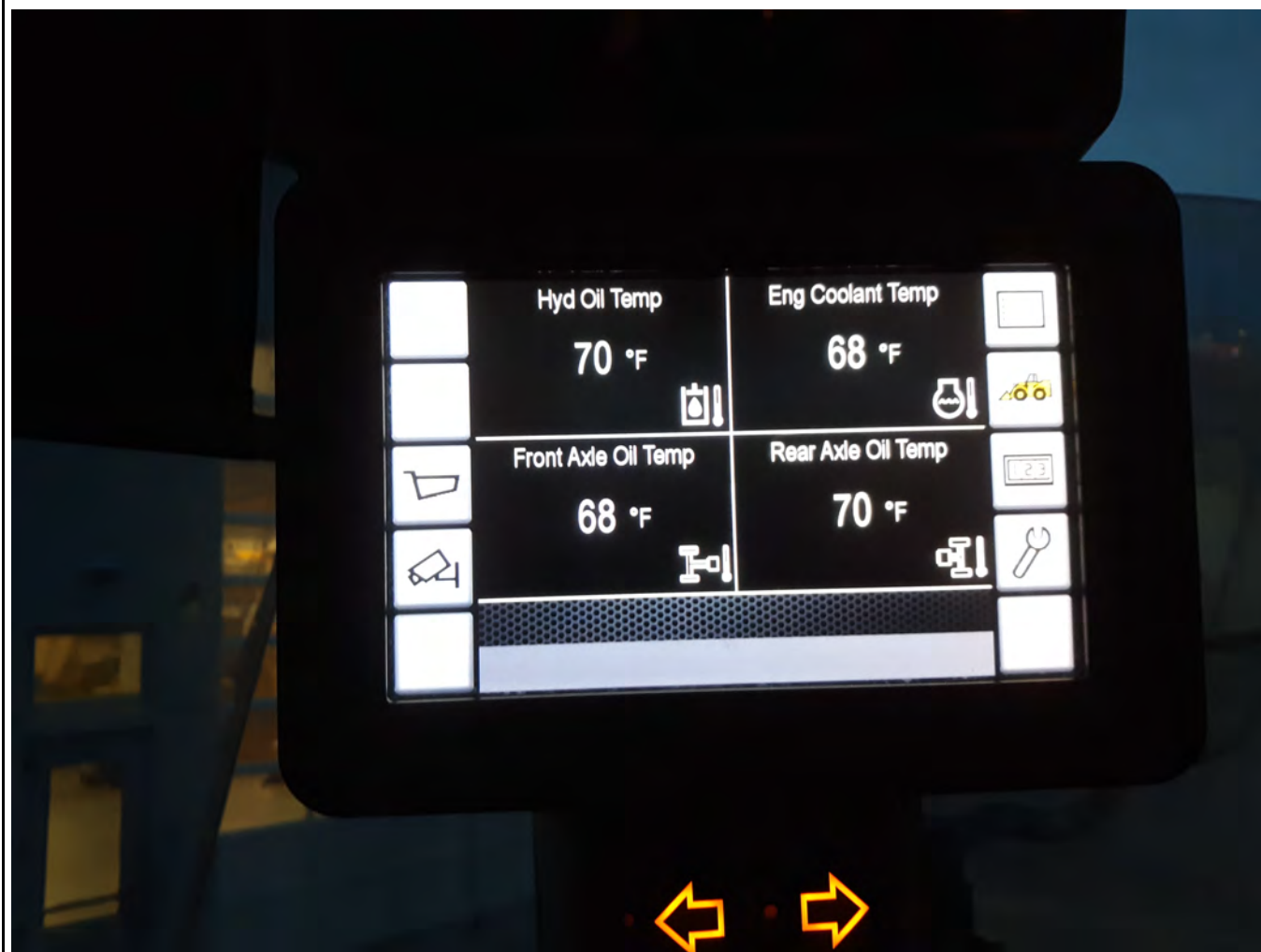


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