



Work Order: 11868

EB10-673

Description: T/S and Repair Transmission	7854 Hours	Date Started: 2021-02-04
Equipment: E649 Caterpillar D8T A/R Dozer	RD-2021-125 Insheet RD-2021-174 Outsheet	
Serial#: MLN00456		

Segment: 1 Misc. Parts

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
72	08/04/21	EMParts	6V3830 Seal-O-Ring		EA	1,000	21.52	21.52
863	04/23/21	EMParts	1090077 Seal O-Ring		EA	3,000	14.27	42.81
864	04/23/21	EMParts	1250434 Seal-Water Neck		EA	1,000	33.70	33.70
865	04/23/21	EMParts	1261818 Filter-Hydraulic		EA	1,000	74.98	74.98
866	04/23/21	EMParts	1R0777 Filter-Hydraulic Advanced Effi		EA	1,000	38.24	38.24
867	04/23/21	EMParts	2N0475 Seal-O-Ring		EA	4,000	7.41	29.64
868	04/23/21	EMParts	8C5230 Seal-O-Ring		EA	2,000	26.31	52.62
906	04/26/21	EMParts	1564575 Seal-Lip Type		EA	1,000	129.48	129.48
907	04/26/21	EMParts	8C5230 Seal-O-Ring		EA	1,000	26.31	26.31
953	03/23/21	EMParts	1728591 Nut-Clip(M6x1-Thd)		EA	2,000	1.08	2.16
954	03/23/21	EMParts	9X2045 Screw-Truss Head (M6x1x20mm)		EA	3,000	1.42	4.26
1033	07/29/21	EMParts	50/50 Rad-Cool Antifreeze		EA	15,000	5.00	75.00
1034	07/29/21	EMParts	5W40 Spectra 5W40		I	41,000	5.22	213.98
1035	07/29/21	EMParts	TO4 Spectra Xtreme TO-4 All season		EA	340,000	5.48	1,862.85
						Labour Total	0.00	
						Parts Total	2,607.55	
						Miscellaneous Total	0.00	

Segment: 2 Insheet and Outsheet Inspections

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
352	02/04/21	PR	Employee: 1575 Paul Nixon		HRS	2,000		
353	02/05/21	PR	Employee: 1575 Paul Nixon		HRS	1,500		
						Labour Total	3.50	
						Parts Total	0.00	
						Miscellaneous Total	0.00	

Segment: 3 Wash and Clean Cab

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
1970	04/27/21	PR	Employee: 1575 Paul Nixon		HRS	1,000		
						Labour Total	1.00	
						Parts Total	0.00	
						Miscellaneous Total	0.00	



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Segment: 4 R&R Repair Transmission, Torque converter, Pump & Final Dr.



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Torque Converter repaired at Union Tractor Inv#219980

Emsco Inv#W03175 PO#1018169

Set transmission on stand and separate bevel gears from planetaries. Strip down and inspect for damage and/or wear. Found major damage to planetaries, carriers, gears and housings. Make list of required parts and weigh cost effectiveness of repair. Determine what used parts that were available in inventory would work. After decision was made to repair, clean necessary parts and assemble transmission to spec following procedure in SIS. Set bevel gear end play and backlash to spec. Reconnect bevel gears and planetaries, set on stand and send for bench testing.

FREIGHT 1@ 46.02
1058183-U HOUSING 1@ 890.74
1383759-U GEAR RING 1@ 407.79
1564406-U PLUG 1@ 3.66
2H3931 SEAL 1@ 8.49
20R2822 CLUTCH PLATE 3@ 247.01 = 741.03
2318855-U SHAFT 1@ 1457.54
2443114 VALVE GP 5@ 479.95 = 2399.75
3284374-A DISC 5@ 100.76 = 503.80
3284375-A DISC 4@ 52.00 = 208.00
3487859 HOUSING CLUTCH 1@ 2633.84
3540168-U HOUSING 1@ 1400.00
3838112 GASKET KIT 1@ 2453.71
3838113-A BEARING KIT 1@ 4279.24
5P3930-U BEARING 4@ 8.23 = 32.92
5P8194 RING RETAINER 1@ 141.29
6I9784-U CARRIER 1@ 1816.14
6I9785-U CARRIER 1@ 978.93
6I9786-U GEAR 1@ 1196.18
6I9788 GEAR PLANET 3@ 259.11 = 777.33
6I9788-U PLANET GEAR 1@ 104.02
6V0473 Retaining Ring 2@ 12.66 = 25.32
7D1677-A BEARING ROLLER 1@ 38.23
7T9369-U GEAR 1@ 192.64
8P1964-A PLATE 3@ 82.00 = 246.00
8S9130 SCREEN 1@ 31.43
9G0289-U SHAFT 4@ 56.70 = 226.80
9P7390-U CLUTCH PLATE 4@ 97.79 = 391.16
9P8626-U GEAR 1@ 170.19
9W8270-U GEAR 1@ 455.15
PARTS 24257.34
LABOR 9100.00
SEGMENT TOTAL==> 33357.34
Salvage Transmission
SALVAGE PISTONS 1@ 230.85
SEGMENT TOTAL==> 230.85
Bench Test Transmission
Send transmission to be bench tested at Finning CAT
and it passed all the testing.
LABOR 2500.00
SEGMENT TOTAL==> 2500.00

***** WORK ORDER TOTALS *****

PARTS 24257.34
LABOR 11600.00
SUBLET 230.85
SHOP SUPPLIES 410.00



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SUB TOTAL==> 36498.19
GST# 830341129RT001 1824.92
AMOUNT DUE (CAD) 38323.11

Unit arrived at shop with no axles installed. Push unit into shop with excavator.
Remove ripper, cylinders, ripper control valve.
Drain transmission oil, remove transmission. Found large chunks of metal debris inside transmission and housing in machine. Advised on findings and transmission was sent out for repair.
Drain hydraulic reservoir. Remove torque converter to be sent out and resealed and new bearings installed.
Remove transmission oil pump, found it had catastrophically failed, requiring it to be completely replaced/rebuilt. Order new parts, assemble new pump and install.
Remove flywheel, steering pump, main hydraulic pump and rear gear train from engine, found bearings for gears had failed, welded themselves to gears. Replace all failed parts in rear gear train. Reinstall pumps.
Drain coolant, remove trans oil cooler to be sent out and cleaned. Received cooler and reinstall. Fill with coolant, had leak from o-ring near cooler. Replace o-ring, fill with coolant again, now leaking from other o-ring. Replace again, fill with coolant. Ok now.
Remove trans oil distribution manifold, clean, replace seals and reinstall.
Remove brake valve, disassemble, clean metal debris from valve, reassemble and install.
Replace several worn/damaged hoses.
Separate both tracks and remove both final drives. Disassemble and clean/replace bearings in both inner final drives. Reassemble and install, reinstall tracks and set track tension.
Clean inside of transmission housing as best I could, piggied out lines until clean. Disassemble and clean transmission filter housing. Clean pump suction screen. Reassemble and install with new filter. Replace trans accumulator.
Install torque converter, transmission and all lines, driveshaft. Fill trans with oil, hyd tank, both final drives. Install axles. Reinstall all ripper components.
Start unit, check for leaks, pressures. All looked good. Found leak from torque converter output shaft seal. Remove driveshaft, replace seal, reinstall parts. Run unit, get oil hot, perform fill calibration with Cat ET. Replace trans oil filter, had lots of little metal fillings present, to be expected. Replace filter. Check pump suction screen, same result. Run unit again, perform several torque stalls to get oil hot. Drain oil from trans filter housing, had much less metal this time. Unit was needed ASAP on a job so was unable to perform anymore testing. Install belly pans, topped up fluid levels. Readjusted track tension.
-Paul

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
156	03/01/21	PR	Employee: 1575 Paul Nixon		HRS	1.500		
158	03/02/21	PR	Employee: 1575 Paul Nixon		HRS	8.000		
159	03/03/21	PR	Employee: 1575 Paul Nixon		HRS	8.500		
160	03/04/21	PR	Employee: 1575 Paul Nixon		HRS	1.500		
354	02/05/21	PR	Employee: 1575 Paul Nixon		HRS	5.000		
627	03/10/21	PR	Employee: 1575 Paul Nixon		HRS	8.500		
712	02/08/21	PR	Employee: 1575 Paul Nixon		HRS	3.000		
713	02/09/21	PR	Employee: 1575 Paul Nixon		HRS	7.500		
714	02/10/21	PR	Employee: 1575 Paul Nixon		HRS	7.500		
715	02/11/21	PR	Employee: 1575 Paul Nixon		HRS	6.000		
716	02/12/21	PR	Employee: 1575 Paul Nixon		HRS	8.500		
820	02/17/21	PR	Employee: 1575 Paul Nixon		HRS	7.500		
859	04/19/21	PR	Employee: 1575 Paul Nixon		HRS	9.000		
860	04/20/21	PR	Employee: 1575 Paul Nixon		HRS	9.500		
861	04/21/21	PR	Employee: 1575 Paul Nixon		HRS	9.500		
867	02/18/21	PR	Employee: 1575 Paul Nixon		HRS	9.500		
868	02/19/21	PR	Employee: 1575 Paul Nixon		HRS	7.500		
891	03/15/21	PR	Employee: 1575 Paul Nixon		HRS	9.500		



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892	03/16/21	PR	Employee: 1575 Paul Nixon	HRS	5.500		
1011	02/18/21	PR	Employee: 1575 Paul Nixon	HRS	-9.500		
1012	02/18/21	PR	Employee: 1575 Paul Nixon	HRS	9.500		
1013	02/19/21	PR	Employee: 1575 Paul Nixon	HRS	-7.500		
1014	02/19/21	PR	Employee: 1575 Paul Nixon	HRS	7.500		
1167	02/22/21	PR	Employee: 1575 Paul Nixon	HRS	8.500		
1168	02/23/21	PR	Employee: 1575 Paul Nixon	HRS	9.500		
1169	02/24/21	PR	Employee: 1575 Paul Nixon	HRS	8.500		
1177	03/17/21	PR	Employee: 1575 Paul Nixon	HRS	6.500		
1178	03/18/21	PR	Employee: 1575 Paul Nixon	HRS	7.500		
1179	03/19/21	PR	Employee: 1575 Paul Nixon	HRS	4.500		
1494	03/22/21	PR	Employee: 1575 Paul Nixon	HRS	4.000		
1496	03/24/21	PR	Employee: 1575 Paul Nixon	HRS	5.000		
1948	02/25/21	PR	Employee: 1575 Paul Nixon	HRS	8.500		
1949	02/26/21	PR	Employee: 1575 Paul Nixon	HRS	8.000		
1961	04/19/21	PR	Employee: 1575 Paul Nixon	HRS	-9.000		
1962	04/19/21	PR	Employee: 1575 Paul Nixon	HRS	9.000		
1963	04/20/21	PR	Employee: 1575 Paul Nixon	HRS	-9.500		
1964	04/20/21	PR	Employee: 1575 Paul Nixon	HRS	9.500		
1965	04/21/21	PR	Employee: 1575 Paul Nixon	HRS	-9.500		
1966	04/21/21	PR	Employee: 1575 Paul Nixon	HRS	9.500		
1969	04/26/21	PR	Employee: 1575 Paul Nixon	HRS	5.500		
176	03/03/21	AP	Vendor: 10321 Union Tractor Ltd. 040-219980 Line: 1	LS	0.000	0.00	7,495.00
1264	03/16/21	AP	Vendor: 10416 Hose Headquarters (Red Deer) Ltd. S6098289.001 Line: 1	LS	0.000	0.00	64.43
1265	03/22/21	AP	Vendor: 10407 Onsite Machining Solutions Ltd. 3519 Line: 1	LS	0.000	0.00	235.50
1994	02/16/21	AP	Vendor: 10132 Gregg Distributors LP 059-346196 Line: 1	LS	0.000	0.00	39.72
2028	03/01/21	AP	Vendor: 10401 RBC Avion Visa Feb 21_Lance Line: 10	LS	0.000	0.00	254.95
3	03/02/21	EMParts	6V1724 Bolt-Track Master	EA	4.000	4.41	17.64
4	03/02/21	EMParts	6V1725 Bolt-Track Master	EA	4.000	5.16	20.64
64	03/04/21	EMParts	2098622 Bearing-Sleeve	EA	2.000	53.81	107.62
65	03/04/21	EMParts	2K8257 Seal-O-Ring	EA	2.000	9.81	19.62
66	03/04/21	EMParts	4M0189 Seal-O-Ring	EA	1.000	8.32	8.32
67	03/04/21	EMParts	6J2680 Seal-O-Ring	EA	1.000	5.71	5.71
184	03/09/21	EMParts	2098621 Bearing	EA	2.000	93.15	186.30
185	03/09/21	EMParts	2098624 Bearing-Sleeve	EA	2.000	119.58	239.16
186	03/09/21	EMParts	2099770 Retainer Assembly	EA	1.000	418.73	418.73
187	03/09/21	EMParts	2099771 Retainer Assembly	EA	1.000	418.73	418.73
188	03/09/21	EMParts	6V5141 Seal	EA	2.000	54.80	109.60
245	03/09/21	EMParts	1B8705 Key	EA	1.000	1.23	1.23
246	03/09/21	EMParts	1B8714 Key	EA	1.000	2.66	2.66
247	03/09/21	EMParts	2068691 Carrier Assembly-Transmission	EA	1.000	668.87	668.87
248	03/09/21	EMParts	2068697 Cover Assembly-Transmission Pu	EA	1.000	798.33	798.33
249	03/09/21	EMParts	2068714 Gear Assembly-Transmission Pum	EA	1.000	500.26	500.26
250	03/09/21	EMParts	2068716 Gear Assembly-Transmission Pum	EA	1.000	474.33	474.33
251	03/09/21	EMParts	2136377 Gear -Transmission Pump	EA	2.000	265.93	531.86
252	03/09/21	EMParts	2680196 Body Assembly-Transmission Pum	EA	1.000	289.17	289.17
253	03/09/21	EMParts	2B9373 Key	EA	1.000	1.89	1.89
254	03/09/21	EMParts	3444769 Body Assembly-Transmission Pum	EA	1.000	1,291.64	1,291.64
255	03/09/21	EMParts	3449027 Body Assembly-Transmission Pum	EA	1.000	1,291.64	1,291.64
256	03/09/21	EMParts	6Y5010 Washer	EA	8.000	7.89	63.12
257	03/09/21	EMParts	9W8934 Gear-Transmission Pump	EA	2.000	187.66	375.32
258	03/09/21	EMParts	1618068 Seal-O-Ring	EA	4.000	43.49	173.96
259	03/09/21	EMParts	2955609 Seal-O-Ring	EA	3.000	16.48	49.44
260	03/09/21	EMParts	2064231U Gear-Pump Drive	EA	1.000	775.00	775.00



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261	03/09/21	EMParts	2064236U Adapter-Pump Mounting	EA	2.000	250.00	500.00
262	03/09/21	EMParts	2078213U Gear-Pump Drive	EA	1.000	675.00	675.00
339	04/15/21	EMParts	1M9011 Seal-O-Ring	EA	1.000	30.34	30.34
462	02/17/21	EMParts	0336031 Seal-O-Ring	EA	1.000	30.21	30.21
463	02/17/21	EMParts	0951678 Seal-O-Ring	EA	1.000	9.32	9.32
464	02/17/21	EMParts	1121574 Seal-O-Ring	EA	2.000	13.63	27.26
465	02/17/21	EMParts	1188586 Seal-O-Ring	EA	3.000	8.78	26.34
466	02/17/21	EMParts	1188706 Seal-O-Ring	EA	1.000	12.23	12.23
467	02/17/21	EMParts	1264935 Seal	EA	1.000	4.37	4.37
468	02/17/21	EMParts	1618068 Seal-O-Ring	EA	4.000	42.23	168.92
469	02/17/21	EMParts	1P3703 Seal-Square-Ring-38.66mm OD	EA	4.000	4.07	16.28
470	02/17/21	EMParts	1P3705 Seal-Square-Ring	EA	3.000	4.96	14.88
471	02/17/21	EMParts	2089757 Hose Assembly-Power Train	EA	1.000	175.88	175.88
472	02/17/21	EMParts	2091459 Hose Assembly-Power Train	EA	1.000	314.98	314.98
473	02/17/21	EMParts	2875812 Seal-O-Ring	EA	1.000	44.57	44.57
474	02/17/21	EMParts	2955609 Seal-O-Ring	EA	9.000	17.22	154.98
475	02/17/21	EMParts	2D6506 Seal-O-Ring	EA	1.000	24.46	24.46
476	02/17/21	EMParts	2N0475 Seal-O-Ring	EA	2.000	7.41	14.82
477	02/17/21	EMParts	2S0795 Gasket-Oil Cooler	EA	2.000	5.22	10.44
478	02/17/21	EMParts	3308196 Seal-O-Ring	EA	1.000	7.61	7.61
479	02/17/21	EMParts	336034 Seal-O-Ring	EA	1.000	9.43	9.43
480	02/17/21	EMParts	3375270 Filter-Power Train	EA	2.000	63.66	127.32
481	02/17/21	EMParts	3498402 Tube	EA	1.000	49.16	49.16
482	02/17/21	EMParts	4J0522 Seal-O-Ring Flange -20	EA	6.000	4.12	24.72
483	02/17/21	EMParts	4J0524 Seal-O-Ring Flange -24	EA	6.000	4.54	27.24
484	02/17/21	EMParts	5D5957 Seal-O-Ring	EA	2.000	40.25	80.50
485	02/17/21	EMParts	5K9090 Seal-O-Ring	EA	6.000	2.09	12.54
486	02/17/21	EMParts	5P4889 Seal	EA	1.000	33.08	33.08
487	02/17/21	EMParts	5P9439 Bearing	EA	2.000	63.79	127.58
488	02/17/21	EMParts	5S9134 Seal-O-Ring	EA	1.000	44.41	44.41
489	02/17/21	EMParts	619455 Seal-O-Ring	EA	1.000	18.29	18.29
490	02/17/21	EMParts	6V1179 Seal-O-Ring	EA	2.000	26.74	53.48
491	02/17/21	EMParts	6V3683 Seal-O-Ring	EA	1.000	12.46	12.46
492	02/17/21	EMParts	6V6353 Seal-O-Ring	EA	1.000	34.87	34.87
493	02/17/21	EMParts	6V9746 Seal-O-Ring Face -12	EA	1.000	1.89	1.89
494	02/17/21	EMParts	7M8485 Seal-O-Ring	EA	2.000	3.16	6.32
495	02/17/21	EMParts	8J4351 Seal-O-Ring	EA	1.000	20.30	20.30
496	02/17/21	EMParts	8M4390 Seal-O-Ring	EA	1.000	10.57	10.57
497	02/17/21	EMParts	8M4986 Seal-O-Ring	EA	1.000	7.43	7.43
498	02/17/21	EMParts	8M4992 Seal-O-Ring	EA	1.000	7.88	7.88
499	02/17/21	EMParts	8T9588 Seal	EA	1.000	4.37	4.37
500	02/17/21	EMParts	9M7002 Seal-O-Ring	EA	2.000	10.54	21.08
501	02/17/21	EMParts	OS-1114919 Seal-Lip	EA	1.000	0.00	0.00
521	03/11/21	EMParts	6T0850 Washer-FinalDrive	EA	1.000	152.55	152.55
869	04/23/21	EMParts	6V5063 Seal-O-Ring	EA	1.000	2.38	2.38
919	02/22/21	EMParts	3317021 Accumulator	EA	1.000	495.58	495.58
920	02/22/21	EMParts	3328683 Hose Assembly-Accumulator	EA	1.000	112.69	112.69
922	02/22/21	EMParts	2R0098 Seal-O-Ring	EA	2.000	16.98	33.96
923	02/22/21	EMParts	3K0360 Seal-O-Ring	EA	4.000	1.84	7.36
924	02/22/21	EMParts	6F6673 Seal-O-Ring	EA	6.000	2.60	15.60
925	02/22/21	EMParts	6P5317 Ring	EA	2.000	84.67	169.34
926	02/22/21	EMParts	8D4771 Seal-O-Ring	EA	2.000	14.95	29.89
927	02/22/21	EMParts	8M4438 Seal-O-Ring	EA	2.000	3.54	7.08
928	02/22/21	EMParts	8P8357 Ring	EA	2.000	78.94	157.88
959	03/23/21	EMParts	3D2824 Seal-O-Ring	EA	2.000	2.56	5.13
960	03/23/21	EMParts	5L4758 Seal-O-Ring	EA	1.000	1.92	1.92
961	03/23/21	EMParts	6J2419 Seal-O-Ring	EA	2.000	2.79	5.58
962	03/23/21	EMParts	9P9150 Washer-Sealing	EA	24.000	0.39	9.36



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1101	02/25/21	EMParts	0054834	Cone-Bearing	EA	2.000	64.17	128.34
1102	02/25/21	EMParts	1223771	Seal-O-Ring	EA	2.000	20.47	40.94
1103	02/25/21	EMParts	1853503	Seal-O-Ring	EA	2.000	12.29	24.58
1104	02/25/21	EMParts	2K5069	Cup-Bearing	EA	1.000	86.51	86.51
1105	02/25/21	EMParts	2K9295	Cone-Bearing	EA	1.000	158.74	158.74
1106	02/25/21	EMParts	3B4124	Cup-Bearing	EA	1.000	66.67	66.67
1107	02/25/21	EMParts	3N0759	Seal-O-Ring	EA	1.000	57.63	57.63
1108	02/25/21	EMParts	4J7533	Seal-O-Ring	EA	1.000	1.50	1.50
1109	02/25/21	EMParts	5J2383	Seal-O-Ring	EA	1.000	9.96	9.96
1110	02/25/21	EMParts	7H4566	Cup-Bearing	EA	2.000	46.44	92.88
1111	02/25/21	EMParts	8M5254	Seal-O-Ring	EA	4.000	5.85	23.40
1112	02/25/21	EMParts	8T0072	Cone-Bearing	EA	1.000	244.07	244.07

Labour Total	209.00
Parts Total	22,069.72
Miscellaneous Total	0.00

Segment: 5 R&R Reseal Oil Pan and 250 Hour Service

Drain engine oil. Remove three piece oil pan. Clean all parts and reinstall with new gaskets. Replace engine oil filter, fuel filters. Top up engine oil.

Grease unit, found two pins on ripper cylinders not taking grease. Use high pressure oil to clear out old dirt/grease. Install new grease nipples, taking grease now.

Replace ether bottle as it was empty. Found rubber thru wires on ether harness, repaired wires.

Top up wiper fluid.

Install fuel screen.

-Paul

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818	02/16/21	PR	Employee: 1575 Paul Nixon		HRS	5.000		
821	02/17/21	PR	Employee: 1575 Paul Nixon		HRS	2.000		
1971	04/27/21	PR	Employee: 1575 Paul Nixon		HRS	4.000		
427	02/16/21	EMParts	1R0749 Filter-Fuel Advanced Efficiency		EA	2.000	20.41	40.82
428	02/16/21	EMParts	1R1808 Filter-Oil Advanced Efficiency		EA	1.000	32.29	32.29
429	02/16/21	EMParts	3261643 Filter-Fuel Advanced Efficiency		EA	1.000	37.43	37.43
430	02/16/21	EMParts	3535065 Gasket-Oil Pan		EA	1.000	130.15	130.15
431	02/16/21	EMParts	4N7266 Gasket-Oil Pan (3 Part)		EA	1.000	18.42	18.42
432	02/16/21	EMParts	7W0845 Gasket-Oil Pan (3 Part)		EA	1.000	10.40	10.40
515	02/18/21	EMParts	9P7121 Fuel Tank Screen		EA	1.000	74.66	74.66
519	02/18/21	EMParts	7N0296 Ether Cylinder-18oz		EA	1.000	78.70	78.70

Labour Total	11.00
Parts Total	422.87
Miscellaneous Total	0.00

Segment: 6 R&R Reseal R/H Lift Cylinder and Replace L/H Tube

Remove RH lift cylinder, disassemble, have the rod sent out for rechroming. Reinstall parts once received. Run, check for leaks, top up oil level.

Remove and replace rod end steel tube on LH lift cylinder as it was dented/crushed.

-Paul

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
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157	03/01/21	PR	Employee: 1575 Paul Nixon	HRS	5.000		
819	02/16/21	PR	Employee: 1575 Paul Nixon	HRS	4.500		
889	02/22/21	AP	Vendor: 10407 Onsite Machining Solutions Ltd. 3475 Line: 1	LS	0.000	0.00	120.00
2029	03/01/21	AP	Vendor: 10401 RBC Avion Visa Feb 21_Lance Line: 17	LS	0.000	0.00	837.58
502	02/17/21	EMParts	2389807 Tube-L/H Lift Cylinder	EA	1.000	660.03	660.03
503	02/17/21	EMParts	3193557 Seal Kit-Lift Cylinder	EA	1.000	209.50	209.50

Labour Total	9.50
Parts Total	1,827.11
Miscellaneous Total	0.00

Segment: 7 Repair Hose on R/H Lower Ripper Cylinder

Check and inspect hoses, was just a couple chunks of rubber missing, no actual damaged occurred, so no need to replace hoses.

-Paul

Segment: 8 T/S Codes

Recent Codes:

*3G-2465-5 Regen Ignition
113-585-2 #1 Speed Sensor
113-673-2 #2 Speed Sensor
113-E329(2) Trans. Filter Plugged*

*All trans codes were related to the trans failure. All were cleared after repair.
Performed a regen and worked fine. Cleared code.*

-Paul

Segment: 9 T/S and Repair Leak from Turbo inlet band clamp

Inspect turbo inlet, was fine. Determined oil was actually from something that was previously placed on top of hood and was soaked in oil, and dripped down onto turbo inlet area.

-Paul

Segment: 10 Repair Doors and Heater

*L/H Engine door strut leaking.
Cab Louver by R/H foot kicked in.*

*LH door strut leaking, but still working.
Replace damaged louver.*

-Paul

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
516	02/18/21	EMParts	4222152 Louver Assembly		EA	1.000	23.61	23.61
						Labour Total	0.00	
						Parts Total	23.61	
						Miscellaneous Total	0.00	



Work Order: 11868

Segment: 11 R&R Reseal Blade Angle Cylinders

Both blade angle cylinders leaking. Bring blade into shop, remove and reseal both cylinders, reinstall. Install blade onto dozer, cycle cylinders, top up oil level, check for leaks. None present. Remove blade and have washed.
-Paul

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
1495	03/23/21	PR	Employee: 1575 Paul Nixon		HRS	9.500		
982	03/23/21	EMParts	2442059 Seal Kit-Tilt Cylinder		EA	2.000	275.44	550.88
Labour Total						9.50		
Parts Total							550.88	
Miscellaneous Total							0.00	

Segment: 12 Replace grease seals and inspect bushings on ripper

Replace grease seals on machine side of ripper table. Clean mud/dirt from all bushings, ensure all fittings are taking grease.
-Paul

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
1497	03/25/21	PR	Employee: 1575 Paul Nixon		HRS	1.500		
952	03/23/21	EMParts	3E6757 Seal-Lip Type		EA	4.000	13.35	53.40
Labour Total						1.50		
Parts Total							53.40	
Miscellaneous Total							0.00	

Segment: 13 Replace plugs on engine block/leaking

Run unit/test for leaks. Found two plugs on RH side of block leaking. Drain engine oil, pound plugs into oil pan, retrieve from pan. Install new plugs and refill engine oil.
-Paul

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
862	04/22/21	PR	Employee: 1575 Paul Nixon		HRS	9.000		
1967	04/22/21	PR	Employee: 1575 Paul Nixon		HRS	-9.000		
1968	04/22/21	PR	Employee: 1575 Paul Nixon		HRS	9.000		
Labour Total						9.00		
Parts Total							0.00	
Miscellaneous Total							0.00	

Segment: 14 Install blade on site at CNRL

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
1972	04/29/21	PR	Employee: 2611 Matthew Walter		HRS	3.000		



Work Order: 11868

Labour Total	3.00
Parts Total	0.00
Miscellaneous Total	0.00
Labour Total	257.00
Parts Total	27,555.14
Miscellaneous Total	0.00

Description: T/S and Repair Leak	Unit at CNRL GRO-8662/8284 7875 Hours	Date Started: 2021-05-04
Equipment: E649 Caterpillar D8T A/R Dozer		
Serial#: MLN00456		

Segment: 1 Parts

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
224	05/07/21	AP	Vendor: 10111 Finning (Canada) a division of Finning International 947456078 Line: 1		EA	1.000	442.63	442.63
66	05/04/21	EMParts	0951678 Seal-O-Ring		EA	1.000	9.32	9.32
67	05/04/21	EMParts	3375270 Filter-Power Train		EA	1.000	64.67	64.67
68	05/04/21	EMParts	8L2786 Seal-O-Ring		EA	1.000	8.41	8.41
458	08/12/21	EMParts	Oil All Hydraulic Oil 10W30		EA	50.000	4.24	212.00

Labour Total	0.00
Parts Total	737.03
Miscellaneous Total	0.00

Segment: 2 Replace Transmission Filter and Sample

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
657	05/09/21	PR	Employee: 2611 Matthew Walter		HRS	2.000		

Labour Total	2.00
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 3 T/S and Repair Leak

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
655	05/07/21	PR	Employee: 2611 Matthew Walter		HRS	7.500		
656	05/08/21	PR	Employee: 2611 Matthew Walter		HRS	8.500		
999	05/19/21	PR	Employee: 28 Troy Schmidt		HRS	1.500		



Work Order: 12115

Labour Total	17.50
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 4 Remove blade

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
989	06/17/21	PR	Employee: 2611 Matthew Walter		HRS	1.500		

Labour Total	1.50
Parts Total	0.00
Miscellaneous Total	0.00

Labour Total	21.00
Parts Total	737.03
Miscellaneous Total	0.00

Description: Rental Return-Emsco	8177 Hours	Date Started: 2021-09-13
Equipment: E649 Caterpillar D8T A/R Dozer	EM-2021-102 Insheet EM-2021-105 Outsheet	
Serial#: MLN00456		

Segment: 1 Parts

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
872	09/23/21	EMParts	9P7121 Fuel Tank Screen		EA	1.000	48.08	48.08
873	09/23/21	EMParts	Dyed Diesel Dyed Diesel		EA	51.100	0.98	50.33

Labour Total	0.00
Parts Total	98.41
Miscellaneous Total	0.00

Segment: 2 Wash and Clean Cab

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
1419	09/28/21	PR	Employee: 2623 Brenton Woolman		HRS	8.000		
874	09/23/21	EMParts	Wash2 Wash		S	1.000	0.00	750.00

Labour Total	8.00
Parts Total	0.00
Miscellaneous Total	750.00

Segment: 3 250 Hour Service



Work Order: 12406

37.5 L 5W40

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
381	09/13/21	PR	Employee: 2395 Nickolas Schou		HRS	1.000		
766	09/17/21	PR	Employee: 2395 Nickolas Schou		HRS	2.000		
875	09/23/21	EMParts	250 Service 250 Hour Service		S	1.000	0.00	1,500.00
						Labour Total	3.00	
						Parts Total	0.00	
						Miscellaneous Total	1,500.00	
						Labour Total	11.00	
						Parts Total	98.41	
						Miscellaneous Total	2,250.00	

Description: Inspections and Repairs
Equipment: E649 Caterpillar D8T A/R Dozer
Serial# MLN00456
 8177 Hours
 EM-2021-102 Insheet
 EM-2021-105 Outsheet
Date Started: 2021-09-13

Segment: 1 Parts

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
2238	09/30/21	AP	Vendor: 10438 Motion Industries, (Canada) Inc AB39-366559 Line: 1	EA		1.000	68.85	68.85
1035	09/29/21	EMParts	2147568 Seal-O-Ring	EA		1.000	6.71	6.71
1036	09/29/21	EMParts	2977928 Connector (ORB to JIC Male)	EA		1.000	20.88	20.88
1037	09/29/21	EMParts	8E7561 Knob-Latch	EA		1.000	47.94	47.94
1038	09/29/21	EMParts	9P7121 Fuel Tank Screen	EA		1.000	48.08	48.08
1039	09/29/21	EMParts	9S8230 Plate-Latch	EA		1.000	52.09	52.09
						Labour Total	0.00	
						Parts Total	244.55	
						Miscellaneous Total	0.00	

Segment: 2 Insheet Inspections

Outsheet inspection. Pictures, park unit up front.
 -Paul

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
51	10/01/21	PR	Employee: 1575 Paul Nixon		HRS	2.000		
382	09/13/21	PR	Employee: 2471 Greg Royer		HRS	3.000		
						Labour Total	5.00	
						Parts Total	0.00	
						Miscellaneous Total	0.00	



Work Order: 12407

Segment: 3 Change and inspect Transmission Filter

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
383	09/13/21	PR	Employee: 2395 Nickolas Schou		HRS	0.500		
767	09/17/21	PR	Employee: 2395 Nickolas Schou		HRS	1.000		
Labour Total						1.50		
Parts Total						0.00		
Miscellaneous Total						0.00		

Segment: 4 Grease, lube hinges, fuel screen, operators manual rough

Grease unit, free up door handles and hinges. Replace knob assembly on battery comp. cover.
Install fuel screen.
Replace operators manual.
Remove renter decals, install our unit numbers back onto machine.
-Paul

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
1128	09/27/21	PR	Employee: 1575 Paul Nixon		HRS	1.500		
Labour Total						1.50		
Parts Total						0.00		
Miscellaneous Total						0.00		

Segment: 5 Check for leaks, lower belly pans. Oil leak in eng. comp.

Belly pans previously removed by Nick.
Found torque converter output shaft seal leaking. Seal had been recently changed, suspect yoke at fault. Remove and inspect. No noticeable signs of wear on yoke. Install speedy sleeve onto yoke and reinstall. Run/test, no signs of leaks.
Install all belly pans.
Found fuel leak on engine in front of valve cover. Remove steel fuel line, found fitting it connects to was worn/had been damaged. Order and install new fitting. Reinstall line, run test, no leaks.
-Paul

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
52	10/01/21	PR	Employee: 1575 Paul Nixon		HRS	2.500		
1129	09/27/21	PR	Employee: 1575 Paul Nixon		HRS	2.000		
1420	09/29/21	PR	Employee: 1575 Paul Nixon		HRS	4.000		
Labour Total						8.50		
Parts Total						0.00		
Miscellaneous Total						0.00		

Segment: 6 Top up fluids; trans/hyd/wiper fluid low



GCS Energy Services Ltd.

Work Order: 12407

Trans oil at low end of dipstick, fill to proper level.
Top up hyd oil level.
Top up wiper fluid.
-Paul

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
1130	09/27/21	PR	Employee: 1575 Paul Nixon		HRS	1.500		

Labour Total	1.50
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 7 Radio wiring inspect-intermittent operation

Remove radio, inspect wiring, could not find any issues, but wires were pulling tight. Re-route wires and reinstall. Could not get problem to happen again.
-Paul

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
1131	09/27/21	PR	Employee: 1575 Paul Nixon		HRS	1.000		

Labour Total	1.00
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 8 Change unit numbers on blade

Cut and grind off EMSCO unit numbers from blade. Weld our unit number (E-649) onto blade and paint.
-Paint

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
1421	09/29/21	PR	Employee: 1575 Paul Nixon		HRS	1.500		

Labour Total	1.50
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 9 PAS not working

PAS not working, checked wiring, power to switch, but not to solenoid. Remove floor mat and floor boards. Found connector unplugged. Unable to re-connect. Replace connector and test. Working now. Reinstall floor boards and mat.
-Paul

Labour Total	20.50
Parts Total	244.55
Miscellaneous Total	0.00



Work Order: 12743

Description: Inspections and Repairs	8234 Hours	Date Started: 2022-01-14
Equipment: E649 Caterpillar D8T A/R Dozer	RD-2022-103 Insheet EM-2022-100 Outsheet	
Serial#: MLN00456		

Segment: 1 Parts

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
437	01/20/22	AP	Vendor: 10132 Gregg Distributors LP 059-423390 Line: 1		EA	2.000	1.32	2.63
380	01/19/22	EMParts	1607271 Seal-Front cover		EA	1.000	81.74	81.74
381	01/19/22	EMParts	2385078 Seal-O-Ring		EA	2.000	6.44	12.88
382	01/19/22	EMParts	3264690 Filter-Crankcase		EA	1.000	41.74	41.74
383	01/19/22	EMParts	5D5957 Seal-O-Ring		EA	2.000	40.25	80.50
398	01/19/22	EMParts	5D5957 Seal-O-Ring		EA	-1.000	42.48	-42.48
						Labour Total	0.00	
						Parts Total	177.01	
						Miscellaneous Total	0.00	

Segment: 2 Insheet and Outsheet Inspections

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
864	01/13/22	PR	Employee: 2471 Greg Royer		HRS	1.000		
865	01/14/22	PR	Employee: 2471 Greg Royer		HRS	3.000		
866	01/17/22	PR	Employee: 1575 Paul Nixon		HRS	2.000		
						Labour Total	6.00	
						Parts Total	0.00	
						Miscellaneous Total	0.00	

Segment: 3 Replace Crankcase Filter and Repair engine oil leaks

Start unit, was very cold (-25). Unit shut down, restarted, went down to 350RPM, hardly running. Displaying code for High crankcase pressure. Let unit run to warm up trans oil enough to get unit into shop. While moving mats and getting ready for unit to come in, unit automatically idled up to 1500RPM for its warm-up procedure. Jumped in unit and drove into shop, was starting to burn oil while coming into shop. Shut unit down, opened engine side doors, found engine oil leaking all over turbo and exhaust clamps and down front cover. Removed front pulley bracket, alternator and A/C compressor. Found front cover gasket pushed out and leaking. Replace gasket and reinstall parts. Remove belly pans, clean out oil, inspect. No further signs of leaks. Run unit outside, wash off oil soaked areas. Get unit hot, do several torque stalls and burn out oil from muffler. Perform regen, all working fine. Bring unit back into shop, install belly pan and clear codes. Recheck fluid levels, move unit outside and clean up work area.
-Paul

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
867	01/18/22	PR	Employee: 1575 Paul Nixon		HRS	4.500		
868	01/19/22	PR	Employee: 1575 Paul Nixon		HRS	7.500		
869	01/20/22	PR	Employee: 1575 Paul Nixon		HRS	1.500		



Work Order: 12743

Labour Total	13.50
Parts Total	0.00
Miscellaneous Total	0.00
Labour Total	19.50
Parts Total	177.01
Miscellaneous Total	0.00

Description: Rental Return-Emsco	8234 Hours	Date Started: 2022-01-14
Equipment: E649 Caterpillar D8T A/R Dozer	RD-2022-103 Insheet EM-2022-100 Outsheet	
Serial#: MLN00456		

Segment: 1 Parts

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
349	01/17/22	EMParts	Dyed Diesel Dyed Diesel		EA	427.750	1.10	472.19

Labour Total	0.00
Parts Total	472.19
Miscellaneous Total	0.00

Segment: 2 Wash

Segment: 3 Weld on Blade pin to chain

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
863	01/14/22	PR	Employee: 2471 Greg Royer		HRS	0.500		

Labour Total	0.50
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 4 Repair Camera and Weatherstripping R/H Compartment

Labour Total	0.50
Parts Total	472.19
Miscellaneous Total	0.00



Work Order: 12977

Description: Inspections, 2000 Hour Service and Repairs	9175 Hours	Date Started: 2022-04-05
Equipment: E649 Caterpillar D8T A/R Dozer	RD-2022-141 Insheet	
Serial#: MLN00456		

Segment: 1 Parts

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
199	02/12/25	AP	Vendor: 10416 Hose Headquarters (Red Deer) Ltd. S7712384.001 Line: 1	EA		3.000	6.66	19.98
200	02/11/25	AP	Vendor: 10416 Hose Headquarters (Red Deer) Ltd. S7709558.001 Line: 1	EA		1.000	42.20	42.20
476	04/28/25	AP	Vendor: 10407 Onsite Machining Solutions Ltd. 5916 Line: 1	LS		0.000	0.00	825.00
480	03/26/25	AP	Vendor: 10111 Finning (Canada) a division of Finning International 962761187 Line: 1	LS		0.000	0.00	587.50
511	01/27/25	AP	Vendor: 10651 Ko-Hen Electronics Supply Ltd. 0000477099 Line: 1	EA		100.000	0.80	80.00
512	01/27/25	AP	Vendor: 10651 Ko-Hen Electronics Supply Ltd. 0000477099 Line: 2	EA		100.000	0.80	80.00
513	01/27/25	AP	Vendor: 10651 Ko-Hen Electronics Supply Ltd. 0000477099 Line: 3	EA		4.000	0.99	3.96
539	01/29/25	AP	Vendor: 10132 Gregg Distributors LP 059-715366 Line: 1	EA		1.000	7.58	7.58
584	01/31/25	AP	Vendor: 10132 Gregg Distributors LP 059-716300 Line: 1	EA		8.000	6.14	49.12
1110	02/27/25	AP	Vendor: 10401 RBC Avion Visa Feb 25/Lance Line: 7	EA		6.000	15.85	95.10
1111	02/27/25	AP	Vendor: 10401 RBC Avion Visa Feb 25/Lance Line: 27	EA		1.000	15.00	15.00
1112	02/27/25	AP	Vendor: 10401 RBC Avion Visa Feb 25/Lance Line: 3	LS		0.000	0.00	859.80
1113	02/27/25	AP	Vendor: 10401 RBC Avion Visa Feb 25/Lance Line: 6	EA		6.000	104.17	625.00
45	02/05/25	EMParts	2429537 Seal-Valve Cover	EA		3.000	127.12	381.36
46	02/05/25	EMParts	1497378 Grommet	EA		18.000	14.18	255.24
47	02/05/25	EMParts	2953099 Spark Plug-AfterTreatment	EA		1.000	18.36	18.36
48	02/05/25	EMParts	5698603 Gasket-Oil Pan	EA		-1.000	261.84	-261.84
51	02/05/25	EMParts	3887017 Clamp-Exhaust Bent Bolt	EA		1.000	25.79	25.79
52	04/08/25	EMParts	C50212 Coupler-3/4" Wing Nut Nipple(Male)	EA		1.000	37.14	37.14
60	04/08/25	EMParts	4J4968 Ring-Lock	EA		2.000	25.72	51.44
61	04/08/25	EMParts	7T9147 Bearing	EA		1.000	365.51	365.51
62	04/08/25	EMParts	8E5818 Shim(0.8mm Thk)	EA		8.000	4.73	37.84
71	02/10/25	EMParts	5D5957 Seal-O-Ring(3.53x104.7mm ID 75	EA		1.000	54.88	54.88
75	01/09/23	EMParts	GA31A Battery	EA		4.000	139.95	559.80
100	02/12/25	EMParts	1619289 Slider-Block	EA		1.000	6.86	6.86
101	02/12/25	EMParts	1735787 Set Screw(1/4"-20TPI)	EA		1.000	5.11	5.11
107	02/13/25	EMParts	2126157 Hinge Assembly	EA		1.000	91.13	91.13
108	02/13/25	EMParts	3349009 Cover-Access	EA		1.000	49.14	49.14
110	02/13/25	EMParts	3173836 Spring-Gas	EA		1.000	225.41	225.41
175	02/18/25	EMParts	3505391 Belt-Serpentine(2635mm)	EA		1.000	234.20	234.20
223	03/19/25	EMParts	3W9207 Guide-Plastic Engine Enclosure	EA		1.000	35.25	35.25
476	01/24/25	EMParts	0951678 Seal-O-Ring	EA		1.000	12.89	12.89
477	01/24/25	EMParts	1R0749 Filter-Fuel(Advanced Efficiency	EA		2.000	27.52	55.04
478	01/24/25	EMParts	1R0777 Filter-Hydraulic Advanced Efficiency	EA		1.000	46.34	46.34
479	01/24/25	EMParts	1R1808 Filter-Oil(Advanced Efficiency	EA		1.000	43.10	43.10
480	01/24/25	EMParts	3261643 Filter-Fuel(Advanced Efficiency	EA		1.000	52.31	52.31
481	01/24/25	EMParts	3468243 Filter-Cab Air	EA		1.000	35.67	35.67
482	01/24/25	EMParts	4656506 Filter-Hydraulic	EA		1.000	171.29	171.29
483	01/24/25	EMParts	5715253 Filter-Power Train	EA		1.000	84.43	84.43
484	01/24/25	EMParts	5771436 Filter-Primary Air	EA		1.000	141.77	141.77
485	01/24/25	EMParts	5H6733 Seal-O-Ring(6.99x139.07mm 75A	EA		1.000	15.26	15.26
486	01/24/25	EMParts	5S9134 Seal-O-Ring	EA		1.000	42.03	42.03
487	01/24/25	EMParts	7D1195 Seal	EA		1.000	7.89	7.89
488	01/24/25	EMParts	1583653 Pin & Chain-Blade	EA		2.000	226.50	453.00
489	01/24/25	EMParts	3173836 Spring-Gas	EA		1.000	225.41	225.41



GCS Energy Services Ltd.

Work Order: 12977

490	01/24/25	EMParts	3193557 Seal Kit-Lift Cylinder	EA	1.000	298.95	298.95
491	01/24/25	EMParts	3W9208 Pawl-Latch	EA	1.000	16.60	16.60
501	01/24/25	EMParts	1285040 Blade-Wiper 13"(330mm)	EA	2.000	8.82	17.64
502	01/24/25	EMParts	C50212 Coupler-3/4" Wing Nut Nipple(M	EA	1.000	37.14	37.14
507	01/24/25	EMParts	1607689 Plug Assembly-Connector(70-Pin	EA	1.000	121.60	121.60
508	01/24/25	EMParts	2144208 Receptacle Assembly-Connector(	EA	1.000	288.46	288.46
527	01/29/25	EMParts	2385081 Seal-O-Ring	EA	1.000	14.09	14.09
528	01/29/25	EMParts	5P5846 Seal-O-Ring	EA	1.000	18.42	18.42
529	01/29/25	EMParts	6V3830 Seal-O-Ring	EA	1.000	18.19	18.19
532	01/30/25	EMParts	1564575 Seal-Lip Type	EA	1.000	182.62	182.62
533	01/30/25	EMParts	4N7266 Gasket-Oil Pan (3 Part)	EA	1.000	19.40	19.40
534	01/30/25	EMParts	5658021 Gasket-Oil Pan	EA	1.000	143.40	143.40
535	01/30/25	EMParts	5698603 Gasket-Oil Pan	EA	1.000	261.84	261.84
536	01/30/25	EMParts	6069110 Seal-Front Main	EA	1.000	242.96	242.96
537	01/30/25	EMParts	7W0845 Gasket-Oil Pan (3 Part)	EA	1.000	15.11	15.11
538	01/30/25	EMParts	8C5230 Seal-O-Ring	EA	1.000	39.69	39.69

Labour Total	0.00
Parts Total	8,891.14
Miscellaneous Total	0.00

Segment: 2 Inspections

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
691	04/05/22	PR	Employee: 2471 Greg Royer		HRS	5.500		
1003	06/25/25	PR	Employee: 3103 Dallas Wood		HRS	1.000		

Labour Total	6.50
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 3 Wash and Clean Cab

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
365	02/11/25	PR	Employee: 3103 Dallas Wood		HRS	4.500		
1053	02/19/25	PR	Employee: 3103 Dallas Wood		HRS	1.000		

Labour Total	5.50
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 4 Test batteries and Replaced

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
692	04/06/22	PR	Employee: 2471 Greg Royer		HRS	1.000		
1320	11/24/22	PR	Employee: 2471 Greg Royer		HRS	3.000		



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Labour Total	4.00
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 5 Repair Panels, wiring

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
353	03/04/25	PR	Employee: 3103 Dallas Wood		HRS	5.000		
366	02/11/25	PR	Employee: 3103 Dallas Wood		HRS	5.000		
367	02/12/25	PR	Employee: 3103 Dallas Wood		HRS	9.500		
368	02/13/25	PR	Employee: 3103 Dallas Wood		HRS	3.000		
775	01/27/25	PR	Employee: 3103 Dallas Wood		HRS	5.000		
777	01/28/25	PR	Employee: 3103 Dallas Wood		HRS	1.500		

Labour Total	29.00
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 6 T/S and Repair Codes

*Engine speed all over the place on monitor(Diag.)
 Hard shifts check accumulator.
 Active Codes:
 Machine pitch sensor abnormal update rate.
 Mid:82 ID:Z110-9
 Fuel Level Sensor
 Mid:82 ID: 96-3*

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
77	07/02/25	PR	Employee: 3103 Dallas Wood		HRS	1.500		
354	03/05/25	PR	Employee: 3103 Dallas Wood		HRS	1.000		

Labour Total	2.50
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 7 Repair Leaks

*Remove LH blade lift cylinder.
 Disassemble and have sent out for re-chroming.
 Receive rod, reassemble with new seals.
 Cylinder reinstalled by Dallas.
 -Paul*

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
288	04/08/25	PR	Employee: 3103 Dallas Wood		HRS	6.000		
362	02/07/25	PR	Employee: 2623 Brenton Woolman		HRS	0.500		



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363	02/07/25	PR	Employee: 3103 Dallas Wood	HRS	3.000
779	01/29/25	PR	Employee: 3103 Dallas Wood	HRS	7.500
780	01/30/25	PR	Employee: 3103 Dallas Wood	HRS	9.500
1052	02/18/25	PR	Employee: 3103 Dallas Wood	HRS	7.500
1054	02/19/25	PR	Employee: 3103 Dallas Wood	HRS	8.000
1055	02/25/25	PR	Employee: 3103 Dallas Wood	HRS	1.500
1056	02/26/25	PR	Employee: 3103 Dallas Wood	HRS	7.500

Labour Total	51.00
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 8 Repair Ripper

Ripper not working and cab torn apart by tech in field (not our tech, renters tech).
 Put everything back together in order to T/S problem.
 Have active codes for ripper solenoid. Test solenoid, ok. Check wiring, found power present at solenoid at all times.
 T/S wiring to solenoid, found bulkhead connector behind seat in cab faulty, full of corrosion, pins/terminals rotten and shorted across.
 Order new connector and pins.
 Crimp new pins onto wires on both sides of connector.
 Install all wires into connector and test.
 Ripper working fine now, no more codes.
 Reinstall all parts that were previously removed by tech in field.
 -Paul

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
774	01/24/25	PR	Employee: 3103 Dallas Wood		HRS	2.500		

Labour Total	2.50
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 9 2000 Hour Service

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
369	02/13/25	PR	Employee: 3103 Dallas Wood		HRS	2.500		
776	01/27/25	PR	Employee: 3103 Dallas Wood		HRS	4.000		
778	01/28/25	PR	Employee: 3103 Dallas Wood		HRS	8.000		

Labour Total	14.50
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 10 Repair Blade

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
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Work Order: 12977

1004 06/26/25 PR Employee: 3103 Dallas Wood HRS 8.000

Labour Total	8.00
Parts Total	0.00
Miscellaneous Total	0.00

Segment: 11 R&R, Test Injectors

All 6 Injectors Tested Good.

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
361	02/04/25	PR	Employee: 3103 Dallas Wood		HRS	9.500		
364	02/10/25	PR	Employee: 3103 Dallas Wood		HRS	9.500		

Labour Total	19.00
Parts Total	0.00
Miscellaneous Total	0.00

Labour Total	142.50
Parts Total	8,891.14
Miscellaneous Total	0.00

Description: Rental Return-Emsco	9175 Hours	Date Started: 2022-04-06
Equipment: E649 Caterpillar D8T A/R Dozer	RD-2022-141 Insheet	
Serial#: MLN00456		

Segment: 1 Parts

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
70	04/06/22	EMParts	Dyed Diesel Dyed Diesel		EA	473.180	1.18	559.42
514	01/27/25	EMParts	9P7121 Fuel Tank Screen		EA	1.000	80.28	80.28

Labour Total	0.00
Parts Total	639.70
Miscellaneous Total	0.00

Segment: 2 Wash and clean cab

Trans	Actual Date	Source	Details	STATUS	UM	Units	Price	Total Cost
1813	04/27/22	PR	Employee: 2623 Brenton Woolman		HRS	9.500		
1814	04/28/22	PR	Employee: 2623 Brenton Woolman		HRS	6.000		



Work Order: 12978

Labour Total	15.50
Parts Total	0.00
Miscellaneous Total	0.00
Labour Total	15.50
Parts Total	639.70
Miscellaneous Total	0.00