


INVOICE
901-037475
WESTERN STAR AND FREIGHTLINER TRUCKS OF GRANDE PRAIRIE

A DIVISION OF WESTERN STAR TRUCKS (NORTH) LTD.

7802 - 210 Street, Grande Prairie, Alberta T8W 1M3 Ph:(780) 513-2236 Fax:(780) 513-2846 Toll Free: 1-800-388-7827

BILL TO		CUSTOMER NO.		SALESMAN NO.		SHIP TO		CUSTOMER NO.		SALESMAN NO.		PG 1 OF 4 *WORK ORDER*	
		160490						160492					
WESTERN STAR - GRANDE PRAIRIE										GST Number		REFERENCE NUMBER	
										892297052 RT		901-037475	
MTH. DAY YR.		WRITER		ORDER NO.		CUSTOMER P.O. NUMBER		TERMS		SHIP VIA		**DUPLICATE**	
1/29/18		JMS		1/16/18		37475		105698GP		NET 10 PROX		EXOP JMS	
QUANTITY ORDERED	QUANTITY SHIPPED	BACK ORDERED	PART NUMBER AND DESCRIPTION					CODE	LIST PRICE	NET PRICE	UNIT	NET AMOUNT	
IN SERVICE: 11/25/2004		ENGINE		YEAR		MAKE		MODEL		ODO IN	ODO OUT	UNIT #	COLOR
VIN: 1F0JF6CK050N62833		06R0796423		2005		FREIGHTLINER		CONVEN		95853	95853	99-0468	GREY
REQUEST 1: ADVISE FOR COOLING SYSTEM PRESSURIZING (SUSPECT CYLINDER HEAD CRACKED) QUOTE # 14064 ACTION 1: ENGINE HOURS 2082 C- CYLINDER HEAD POROUS CASTINGS (ALLOWING COOLANT INTO INTAKE) AND LINER PROTRUSIONS OUT OF SPEC. C- PULL UNIT INSIDE, DRAINED COOLANT, REMOVED RAD SUPPORT ARM, INTAKE PIPING, INTAKE MANIFOLD, CROSSOVER PIPING, AIR LINES, BRACKETS, AND COOLANT CROSSOVER PIPES. REMOVE DELTA P BRACKETS, VALVE COVER, COOLANT BRACKET, LIFTING EYE, UNBOLT JAKES AND ROCKER ARM ASSEMBLIES. UNBOLT AND REMOVE INJECTORS. UNBOLT CAM CAP COVER, REMOVE CAM TIMING SENSOR, REMOVE CAM CAP BOLTS. ROLL AND PIN ENGINE. TIMING NOT ADVANCED. UNBOLT CAM POCKET AND REAR COVER, REMOVE CAM. REMOVE TURBO FEED AND DRAIN LINES, DOWN PIPE, EGR BELLONS, AND TURBO. UNBOLT CYLINDER HEAD AND REMOVE WITH CRANE, INSPECT HEAD GASKET AND FIND #4 BLOWN OUT ON THE FIRE RING. NO VISIBLE DAMAGE SEEN TO CYLINDER HEAD. SCRAPE HEAD GASKET OFF DECK AFTER PLUGGING OIL PORTS. CLEAN ALL THREAD HOLES OUT AND ENTIRE BLOCK DECK ROLL ENGINE AROUND AND INSPECT ALL CYLINDER LINERS. ALL HAVE NORMAL WEAR. COVER ENGINE UP, CLEAN CYLINDER HEAD MATING SURFACE, REMOVE EXHAUST AND INTAKE MANIFOLDS. USE PRESSURE TESTING EGT. TO TEST CYL HEAD. HAS CRACK/POROUS HEAD AS LEAKS DOWN AND BUBBLING CAN BE SEEN IN INTAKE PORTS. CLEAN LINER HOLD DOWN TOOL, INSTALL AND MEASURE LINER PROTRUSIONS, VERY CLOSE TO BEING TOO LOW, #4, AND 5 ARE OUT (-0.002") -0.005" IS MAX. CALL CUSTOMER AND GET APPROVAL TO CUT ALL 6 COUNTER BORES. UNBOLT LINES TO OIL PAN AND UNBOLT AND REMOVE OIL PAN AS DRAINED OIL EARLIER. REMOVE OIL PUMP ASSEMBLY. ROLL ENGINE AROUND, UNBOLT #2 AND #5 ROD CAPS. INSTALL LINER LIFTER TOOL AND PULL BOTH THOSE CYLINDER KITS OUT. #2 PISTON CAME OUT OF LINER ON REMOVAL. ALL OK. REMOVED CYLINDER KITS AT 1,3,4,6. CLEAN OUT COUNTER BORES, GET COUNTER BORE SLEEVE INSERT CUTTING TOOL RIGGED UP. CUT ALL CYLINDERS FOR SLEEVES. INSTALLED ALL COUNTER BORE SLEEVE INSERTS, FILED BLOCK SURFACE. SETUP FINAL CUTTER AND CUT ALL CYLINDER HEIGHTS TO 0.002-0.003". ORDERED ADDITIONAL PARTS REQUIRED FOR RE-ASSEMBLY, ASSEMBLED NEW CYLINDER HEAD. CLEANED ALL PARTS FOR RE-USE, MEASURED ALL LINERS FLANGES FOR RE-USE (ALL WITHIN 0.001" OF NEW).													
I AM/WE ARE AUTHORIZED REPAIRS TO MY (OUR) MOTOR VEHICLE. I (WE) HEREBY ACKNOWLEDGE MY (OUR) INDEBTEDNESS TO: WESTERN STAR TRUCKS (NORTH) LTD. IN THE SUM OF \$ _____ BEING ALL OR THE BALANCE OF THE ACCOUNT FOR SAID WORK										SUB-TOTAL			
										TAX			
DATE: _____ X										ERRORS AND OMISSIONS EXCEPTED		TIME PREPARED	
										TOTAL		Continued	

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WESTERN STAR AND FREIGHTLINER TRUCKS OF GRANDE PRAIRIE
A DIVISION OF WESTERN STAR TRUCKS (NORTH) LTD.

7802 - 110 Street, Grande Prairie, Alberta T8W 1M3 Ph: (780) 513-2235 Fax: (780) 513-2846 Toll Free: 1-866-388-7827

BILL TO		CUSTOMER NO.	SALESMAN NO.	SHIP TO	CUSTOMER NO.	SALESMAN NO.		
		160490			160492		PG 2 OF 4 *WORK ORDER*	
							CHARGE	
WESTERN STAR - GRANDE PRAIRIE							CRT Number 892297052 RT	REFERENCE NUMBER 901-037475
MTH. DAY YR.	WRITER	ORDER NO.	CUSTOMER P.O. NUMBER	TERMS	SHIP VIA	**DUPLICATE**		
1/29/18	JMS	1/16/18 37475	105638GP	NET 10 PROX	SHOP	JMS		
QUANTITY ORDERED	QUANTITY SHIPPED	BACK ORDERED	PART NUMBER AND DESCRIPTION		CODE	LIST PRICE	NET PRICE	UNIT
CLEANED SHAVINGS FROM BLOCK. INSTALLED CYLINDER KITS AND TORQUED CON RODS. HAD ONE PISTON FALL OUT OF LINER, HAD TO REPLACE RING SET ON THAT PISTON AS WELL. MEASURED PROTRUSIONS, GOOD. INSTALLED OIL NOZZLES, AND TORQUED. INSTALLED NEW HEAD GASKET NEW HEAD AND NEW HEAD BOLTS. TORQUED. REMOVE OIL SUCTION PIPE FROM PUMP AND REMOVE TUBE. RESEAL AND TORQUE BACK UP. INSTALL PUMP ONTO UNIT AND TQ UP. INSTALL THE OIL PAN AFTER RTV THE CORNERS OF BLOCK. TORQUE PAN AND INSTALL THE 90° BRACKETS AROUND PAN AND THE PAN HEATER CORD. TIE UP. GATHER PARTS FOR TURBO MOUNT, INSTALL EGR BELLOW PIPE AND CLAMP UP. INSTALLED CAM, INJECTORS AND LOCKERS. SET VALVES AND INJECTORS. INSTALLED INTAKE MANIFOLD. INSTALLED JAKE BRAKES AND SET. INSTALLED TURBO, COOLANT HOSES, VALVE COVER, AIR INTAKE. ADDED OIL AND NEW PREFILLED OIL FILTERS. INSTALLED PREFILLED FUEL FILTERS. FILLED WITH COOLANT. PRIMED FUEL TRIED TO START. UNIT WOULD NOT START. CHECKED OVER BATTERY CONNECTIONS, GOOD. TRIED TO CONNECT WITH LAPTOP, COULD COMMUNICATE. AFTER RE-CHECKING MULTIPLE SENSORS FOUND CAM POSITION SENSOR NOT FULLY SEATED AND PICKING ERRATIC SIGNAL. **REPAIR CONTINUES ON LINE #3**								
1	1		DDE R2353858	HEAD, Cylinder Ballast	TG X51	3650.590		3650.59
1	1		DDE C2353856	COIL, Cylinder Head	G	2080.190		2080.19
1	1		DDE 23536442	KIT, Head Gasket	TG C01A	309.320		309.32
38	38		DDE 23530768	BOLT, Head	TG V42	9.850		374.30
2	2		DN 23530573	FILTER, Oil 860 >8	TG P07C	21.440		42.88
2	2		EHC OVER8	ENVIRO CHARGE, Filter	TG	1.000		2.00
4	4		DDE 23533913	STUD, Exhaust 1.50"	TG V43	13.820		55.28
				Turbo Mount				
2	2		DDE 23537128	CLAMP	TG V44	22.030		44.06
4	4		DDE 23531401	NUT, Turbo Mount	TG V43	6.700		26.80
				M10x1.5x20mm Flange				
1	1		DDE 08929285	GASKET, Turbo Oil Drain	TG C56	1.220		1.22
2	2		DDE 23530682	O-RING	TG V42	1.580		3.16
6	6		DDE 23525500	SHIM, Counter-Bore	TG C10H	46.810		280.86
1	1		DDE 23537529	PISTON RING SET	TG D01F	72.100		72.10
1	1		DDE 23526141	BEARING, Rod	TG C10H	54.100		54.10
12	12		DDE 08929175	SEAL	TG V40	20.900		250.80
6	6		DDE 08929013	SEAL	TG	21.600		129.60
1	1		DDE 23536019	HARNESS, Injector	TG D01E	180.230		180.23
HAVING AUTHORIZED REPAIRS TO MY (OUR) MOTOR VEHICLE, I (WE) HEREBY ACKNOWLEDGE MY (OUR) DEBTEDNESS TO: WESTERN STAR TRUCKS (NORTH) LTD.						SUB-TOTAL		
IN THE SUM OF \$ _____ BEING ALL OR THE BALANCE OF THE ACCOUNT FOR SAID WORK						TAX		
DATE: _____ X _____						TOTAL		
ERRORS AND OMISSIONS EXCEPTED						TIME PREPARED		
						Continued		

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A DIVISION OF WESTERN STAR TRUCKS (NORTH) LTD.

7002 - 110 Street, Grande Prairie, Alberta T8W 1M3 Ph:(780) 513-2250 Fax:(780) 513-2846 Toll Free: 1-866-388-7827

BILL TO		CUSTOMER NO.	SALESMAN NO.	SHIP TO	CUSTOMER NO.	SALESMAN NO.	CHARGE				
		160490			160492		PG 3 OF 4 *NOEX ORDER*				
WESTERN STAR - GRANDE PRAIRIE							GST Number	REFERENCE NUMBER			
							892297052 RT	901-037475			
MTN	DAY	YR.	WRITER	ORDER NO	CUSTOMER P.O. NUMBER	TERMS	SHIP VIA	**DUPLICATE**			
1/29/18			JMS	1/16/18 37475	105698GP	NET 10 PROX	SHOP	JMS			
QUANTITY ORDERED	QUANTITY SHIPPED	BACK ORDERED	PART NUMBER AND DESCRIPTION			CODE	LIST PRICE	NET PRICE	UNIT	NET AMOUNT	
1	1		DDE 23537529	PISTON RING SET		TG D01F	72.100			72.10	
1	1		DDE 23539104	GASKET, Oil Pan		TG D15	90.780			90.78	
7	7		DDE 08929690	BEARING, Camshaft Ser 60		TG C10Z	20.690			144.83	
1	1		DDE 23505891	SEAL RING		TG V40	4.470			4.47	
1	1		DDE 23505892	SEAL RING		TG V41	3.620			3.62	
1	1		DDE 23505992	GASKET		TG C56	2.050			2.05	
6	6		DDE 23537111	KIT, Injector O-Ring		TG V44	12.660			75.96	
6	6		OWI 23539617	COOLANT, Detroit OAT ELC 50/50, Red, Nitrite Free		TG X61	12.010			72.06	
1	1		BRZ 9210H	CLAMP, Liner		TG Q25	1.800			1.80	
1	1		DN P551000	FILTER, F/W Separator >8		TG W04F	21.000			21.00	
1	1		EHC OVER8	ENVIRO CHARGE, Filter		TG	1.000			1.00	
31	31		SIL 500010048	OIL, Rotella T4 15W40 CK4 BULK		TG P03D	4.820			149.42	
31	31		EHC OIL2	ENVIRO CHARGE, Bulk Oil		TG	.050			1.55	
1	1		WUC 884PC14624	UNION, PTC 1/4		TG V22	5.400			5.40	
1	1		MID P64	INSERT		TG	.290			.29	
1	1		WUC 88414614	NUT, 1/4"		TG V25	.870			.87	
1	1		WUC 88414604	SLEEVE, 1/4"		TG V25	.390			.39	
1	1		MID C64EK	TUBING, Nylon 1/4" Black		TG J06	.910			.91	
1-	1-		DDE C23538856	CORE, Cylinder Head		C G	2080.190			2080.19CR	
1	1		PG WF2077	FILTER, Water <8"		TG P03B	11.220			11.22	
				ZERO UNIT FILTER							
1	1		EHC UNDER8	ENVIRO CHARGE, Filter		TG	.500			.50	
29.00	29.00		LAB GPR	REG LABOUR - GP		G	159.000			4611.00	
				SHOP SUPPLIES						368.88	
PARTS:		6137.52	LABOR:		4611.00	SUBLET3:		0.00	SUPPLIES:		368.88
REQUEST 2: C/R LOW BOOST/FLUCTUATING (25-31P51)											
ACTION 2: C: V-POD ACTUATOR NOT SUPPLYING CORRECTED AIR PRESSURE TO TURBO V-POD											
C: CHECKED OPERATION OF V-POD AND FOUND THE OUT PUT PRESSURE WOULD FLUCTUATE. DRAG TESTED PINS AT ACTUATOR CONNECTOR, OK. CHECKED SUPPLY AIR PRESSURE TO ACTUATOR, OK. REMOVED AND REPLACED ACTUATOR AND CHECKED FOR LEAKS. GOOD. RETURNED CORE.											
1	1		EDE R23536834	VPOD, 12V		TG D11B	629.790			629.79	
1	1		EDE C23536834	CORE, C50-VPOD		G	421.880			421.88	
HAVING AUTHORIZED REPAIRS TO MY (OUR) MOTOR VEHICLE, I (WE) HEREBY ACKNOWLEDGE MY (OUR) INDEBTEDNESS TO WESTERN STAR TRUCKS (NORTH) LTD.							SUB-TOTAL				
IN THE SUM OF \$ _____ BEING ALL OR THE BALANCE OF THE ACCOUNT FOR SAID WORK.							TAX				
DATE: _____ X _____							ERRORS AND OMISSIONS EXCEPTED		TIME PREPARED		
							TOTAL		Continued		

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BILL TO		CUSTOMER NO.		SALESMAN NO.		SHIP TO		CUSTOMER NO.		SALESMAN NO.	
		160490						160492			
										PG 4 OF 4 "WORK ORDER"	
										CHARGE	
WESTERN STAR - GRANDE PRAIRIE										GST Number 892297052 RT	
										REFERENCE NUMBER 901-037475	
MTH. DAY YR.		WRITER		ORDER NO.		CUSTOMER P.O. NUMBER		TERMS		SHIP VIA	
1/29/18		JMS		1/16/18 37475		105698GP		NET 10 PROX		SHOP	
										DUPLICATE	
										JMS	
QUANTITY ORDERED	QUANTITY SHIPPED	BACK ORDERED	PART NUMBER AND DESCRIPTION					CODE	LIST PRICE	NET PRICE	UNIT
1-	1-		DDE C23536834					C G		421.880	421.88CR
2.70	2.70		LAB GPR					G		159.000	429.30
											34.34
PARTS: 629.79										LABOR: 429.30	
SUBLETS: 0.00										SUPPLIES: 34.34	
REQUEST 3: **STORY CONTINUED FROM LINE #1**											
ACTION 3: STARTED UNIT. CHECKED OVER UNIT. FOUND INTAKE PIPE RUBBING ON RAD SUPPORT. RE-ADJUSTED INTAKE PIPING AND MOVED RAD SUPPORT TO BOTTOM SIDE OF MOUNT BRACKET. FOUND BRACKET AT BACK OF HEAD NOT BOLTED UP, INSTALLED BOLT. FOUND LOOSE COOLANT LINE AT AIR COMPRESSOR, TIGHTENED, FOUND OIL LINE TO TURBO LOOSE AND SUPPORT BRACKET MISSING. TIGHTENED LINE AND HAD TO FIND THE SUPPORT BRACKET AND INSTALL. TIED UP AND BUNCH OF LOOSE WIRING. CHECKED FLUID LEVELS AND TOPPED UP OIL LEVEL. RAN UNIT AND FOUND AIR LEAK AT AIR LINE TO FAN HUB, REPAIRED. STEAMED OFF ENGINE AND ROAD TESTED UNIT, CHECKED OVER FOLLOWING ROAD TEST AND ALL OK.											
PARTS: 0.00										LABOR: 0.00	
SUBLETS: 0.00										SUPPLIES: 0.00	
TOTAL PARTS: 6767.31										LABOR: 5040.30	
SUBLETS: 0.00										SUPPLIES: 403.22	
GOODS & SERVICES TAX (CODE G)										\$610.55	

***** EMAIL INVOICES NOW AVAILABLE * NO RETURNS ON ELECTRICAL * CORES MUST BE RETURNED IN 90 DAYS FOR CREDIT *****

HAVING AUTHORIZED REPAIRS TO MY (OUR) MOTOR VEHICLE, I (WE) HEREBY ACKNOWLEDGE MY (OUR) INDEBTEDNESS TO: WESTERN STAR TRUCKS (NORTH) LTD.		SUB-TOTAL		12210.83
IN THE SUM OF \$		TAX		610.55
BEING ALL OR THE BALANCE OF THE ACCOUNT FOR SAID WORK.		TOTAL		12821.38

DATE: _____ X _____

ERRORS AND OMISSIONS EXCEPTED

TIME PREPARED 15:15

DATE: _____

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