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EQUIPMENT MAINTENANCE & SUPPLY CO.

PHYSICAL:

1810 Industrial Drive
RM of Sherwood, SK S4K 0A6
306-550-3599 - Office

MAILING:

1810 Industrial Drive
RM of Sherwood, SK S4K 0A6
306-522-4033 - Fax

FX11-1

PLEASE REMIT PAYMENT TO:

EMSCO Holdings LP
1810 Industrial Drive
RM of Sherwood, SK S4K 0A6

GST/HST Registration: 830341129

Ship To: IN STORE PICKUP

Sold To: POTZUS PAVING & MAINTENANCE LTD.

Branch REGINA		
Date 09/26/23	Time 15:55:36 (O)	Page 01
Account No	Phone No	Inv No W05241
Ship Via		Purchase Order PT1435
PST No		GST/HST No
		Salesperson 94

SERVICE INVOICE

STK#/FLEET#		HRS	PIN/EIN	WARRANTY DATE	HRS
PT-1435	Truck	854417	1XKD040X0EJ967935		
	T800				

SEGMENT# 1 5 CUST N/A 04/03/23 04/03/23

MANUEVER TRUCK INTO SHOP

CORRECTION:

Pushed dead truck into shop bay. Removed from shop while waiting for replacement engine. Brought back into shop when engine arrived.

	LABOR	1176.00
12000000	SEGMENT TOTAL==>	1176.00

SEGMENT# 2 5 CUST NA 04/03/23 04/03/23

R&I HOOD

CORRECTION:

Unplugged and marked wiring. Removed hood cables and hood mount hardware. Removed hood with use of forklift crane. For reinstall, used forklift to lift the truck hood then slide the hood towards truck and tilt to line up the mount bolts. Attached hood cables and closed hood to ensure it is lined up correctly. Tightened and torqued hood mount bolts to 100 ft./lbs. Hooked up lights.

	LABOR	840.00
12000000	SEGMENT TOTAL==>	840.00

SEGMENT# 3 5 CUST NA 04/03/23 04/03/23

R&I ENGINE

CORRECTION:

Drained coolant from rad. Removed rad hoses from top and bottom and removed pipes. Removed rad/intercooler as a pack and set aside. Unplugged all harnesses and marked with ties. Removed fuel lines. Removed air lines and set aside.

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Removed A/C lines. Installed brackets and hooked up hoist. Used a 2 inch strap and jack to support transmission. Opened up inspection hole on transmission. Removed clutch linkage. Removed transmission mount bolts. Turned clutch arm to free engine from transmission. Removed from mount hanger. Lifted engine and slowly moved forward and out. Set engine on stands for disassembly. Used pressure washer to wash truck frame and wires prior to reinstalling the engine. Attached crane to engine by using spreader bar and lifting links to lift and tilt engine. Transmission was tilted and made it difficult to line up with engine. Used a transmission jack with a bottle jack to lift and tilt the transmission, took some time but ws able to get engine to seal perfectly with transmission. Applied Loctite and torqued bolts. Installed engine mounting bolts and torqued. Installed fan clutch and radiator pack. Installed all engine accessories and wiring. Ensured everything was correctly torqued. Filled engine with 42L 5W40. Installed A/C hose and charged system. Installed coolant fittings and filled coolant system. Hooked up JPRO to ECM and started truck. There were no codes. Engine oil pressure was recorded at 40 PSI. Took truck for test drive, no faults found.

AP3549	ADAPTER	1 N	11.14	11.14
FC35016	P/S HOSE	3 N	49.95	149.85
FRT	FREIGHT	4	17.25	69.00
FS0304-C-06	06 ORFS CAP	2	1.64	3.28
PET10	3/4- 1 1/16 HC	2	3.35	6.70
PET8	HOSE CLAMP	2	3.32	6.64
PHS16	1-1/2 OD CLAMP	2 N	2.52	5.04

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V38-1090			FITTING-3/4	4 N 114.75	459.00
0304-C-04			04 JIC CAP NUT	1 .82	.82
117197HB			HOSE BUILD	1 N 137.05	137.05
117371HB			HOSE BUILD	1 N 139.60	139.60
14684A			4x18NPT COMP	1 N 6.06	6.06
209436			5W40 1L SYN	42 9.21	386.82
227819-960			PRMX 50/50 1L	56 5.39	301.84
3600008			HEATER CORD	1 N 52.51	52.51
4988280			GASKET	1 N 7.50	7.50
509827			AC LINE HB	1 188.60	188.60
5526-075			3/4 heater hose	3 9.75	29.25
			PARTS		1960.70
			LABOR		7812.00
12000000			SEGMENT TOTAL==>		9772.70

SEGMENT# 4 5 CUST NA	04/03/23 04/05/23
SUPPLY EXCHANGE ENGINE	
<u>CORRECTION:</u>	
Supplied new exchange, pre-deleted ISX15 engine.	
FRT	FREIGHT 2 970.00 1940.00
TTD2350	ENGINE ASSY. 1 N 56250.00 56250.00
	PARTS 58190.00
12000000	SEGMENT TOTAL==> 58190.00

SEGMENT# 5 5 CUST NA	04/03/23 04/06/23
DISASSEMBLE & DIAGNOSE ENGINE FAILURE	
<u>CORRECTION:</u>	
Removed valve cover, fuel lines and hoses. Removed front components from engine including alternator, a/c compressor, pulleys, fan clutch and fan. Removed front	

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cover to access cam for head removal. Built a tool to remove the cam gear. Removed bolts and lifted out rocker shaft assemblies. Marked and set aside. Removed jakes. Slid camshaft out of head. Removed brackets from head/front housing. Removed all head bolts and lifted off cylinder head. Inspected head. Looked inside cylinders to observe damage. Set head aside on table. Removed 3 crank mains to inspect damage. Removed all rod caps. Removed all piston/rod assemblies for inspection. Removed #4 sleeve. ****this engine had been taken apart prior to arriving at EMSCO, lots of rod bolts loose as well as mains. Engine oil pan was removed prior to arrival.**** All parts removed were set on bench for further inspection and failure analysis. Observed all failed parts on bench. Went through oil gallery routing and oil passages. Inspected damage on each rod bearing as well as main bearings. Inspected damaged sleeve and piston. From what was observed, believe a wrist pin snap ring was installed incorrectly and the pin slowly worked its way out causing catastrophic damage. Insurance company's theory was when 2nd oil change was performed dirt was introduced into the new engine oil filter on the clean oil side causing damage leading to wrist pin seizure. Inspected turbo and it is fine, if dirt was introduced it would have caused the turbo to fail or be damaged.

12000000

LABOR	2940.00
SEGMENT TOTAL==>	2940.00

SEGMENT# 6 5 CUST NA
REPAIR EXHAUST SYSTEM

04/03/23 09/26/23

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CORRECTION:

Exhaust downpipe and bellows damaged. Quote repairs. Ordered parts and installed new exhaust components to truck.

M66-6647	PIPE-EXHAUST	1 N	1383.75	1383.75
M66-9393-0320	PIPE-BELLOWS	1 N	843.75	843.75
286637	GASKET	1 N	37.13	37.13
2866636	GASKET	3 N	37.13	111.39
900012	CLAMP-V BAND	3 N	23.63	70.89
900013	CLAMP-V BAND	1 N	24.64	24.64
	PARTS			2471.55
	LABOR			336.00
12000000	SEGMENT TOTAL==>			2807.55

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

PARTS	62622.25
LABOR	13104.00
SHOP SUPPLIES	917.28
SUB TOTAL==>	76643.53
GST# 830341129RT001	3832.17
SK PST @ 6.00%	4598.63
AMOUNT DUE (CAD)	85074.33

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