

VERMEER CANADA, INC
1119 46 Ave SE
Calgary, AB T2G 2A5
403-216-1160 403-204-9101

Account#	Work Ord	Br	Sls
211571	13007987	212	135

W O R K O R D E R
I N V O I C E

Date	Invoice #	Page
12-28-18	13036995	1

Sold To: 000
THOMAS ELECTRIC (1985) LTD.
DIRECTIONAL DRILLING HYDRO VAC
P.O. BOX 7 STN SITE 13 R.R.#2

Ship To:
THOMAS ELECTRIC (1985) LTD.
DIRECTIONAL DRILLING HYDRO VAC
P.O. BOX 7 STN SITE 13 R.R.#2

BARRHEAD

AB T7N 1N3

BARRHEAD

AB T7N 1N3

Ship Via:

Purchase order	Date	Job Number	Job Contact
	12-03-18		

G.S.T. # 86352-8493

PRICES IN CANADIAN FUNDS

TERMS: NET 10 DAYS RENTALS & EQUIPMENT. NET 30 DAYS PARTS & LABOUR

1.5 PERCENT MONTHLY INTEREST ON OVERDUE ACCOUNTS

Seg# 000 Mfr:VER Model:D80X100

S/N:1VRZ27077C1000468

Meter: 6639

Equip ID:468

COMPLAINT:

LEAK AT REAR OF GEAR BOX

CAUSE:

FAILED SEAL

CORRECTION:

- VERIFY COMPLAINT
- DRAIN GEAR BOX, OIL VERY DIRTY.
- REMOVE ROTARY ENCODER AND BRACKET
- REMOVE WATER SWIVEL BRACKET AND WATER SWIVEL
- REMOVE LOCKING NUT
- REMOVE SEAL GLAND SEAL
- INSTALL NEW SEAL AND INNER O-RING
- RE INSTAL GLAND
- INSTALL NEW LOCKING NUT AND TORQUE TO SPEC.
- RE INSTAL ROTARY ENCODER AND BRACKET
- CLEAN UP THREADS ON WATER SWIVEL
- CHECK THREADS ON HEAD SHAFT, GOOD
- RE INSTALL WATER SWIVEL WITH PIPE SEALANT
- REMOVE GEAR BOX COVER AND CLEAN INSIDE OF GEAR BOX
- RE SEAL COVER
- ADD NEW GEAR OIL TO PROPER LEVEL
- RUN ROTATION AND CHECK FOR LEAKS
- NO LEAKS FOUND.

DONE 6728 HRS

THANK YOU FOR YOUR BUSINESS

PARTS RETURN POLICY - WITHIN 30 DAYS OF PURCHASE

15 PERCENT RESTOCK FEE ON RETURNABLE STOCK

30 PERCENT RESTOCK FEE ON RETURNABLE NON-STOK

NO RETURN ON ELECTRICAL OR ELECTRONIC PARTS

NO RETURNS ACCEPTED AFTER 30 DAYS OF PURCHASE

Continued

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1	257541001	SWITCH-SPDT 3 PO	30.78	30.78
1	280782001	LOCKNUT - M70X1.	1,137.28	1,137.28
1	280783001	O-RING #233	0.93	0.93
1	296273838	SEAL-4.625ID X 5	82.77	82.77
1	628766001	RELAY-12VDC (DIO	174.30	174.30
1	PARTS DISCOUNT-280782001		79.62-	79.62-
1	SHIPPING CHARGES PARTS-280783001		75.00	75.00
		Total Labor		1,228.50
	Total for segment			2,649.94

 Seg# 001 Mfr:VER Model:D80X100 S/N:1VRZ27077C1000468 Meter: 6639
 Equip ID:468

FIELD TRAVEL CHARGE

12-9-2018 TRAVEL FROM RED DEER TO JOB SITE JUST WEST OF RED DEER ON
 HWY 11A AND BACK

	Total Labor	141.75
Total for segment		141.75

 Seg# 002 Mfr:VER Model:D80X100 S/N:1VRZ27077C1000468 Meter: 6639
 Equip ID:468

COMPLAINT:
 OPERATOR STATES
 ENGINE HAS SHUT DOWN
 FUSE F11 BLOWN MULTIPLE TIMES

CAUSE:

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TERMS: NET 10 DAYS RENTALS & EQUIPMENT. NET 30 DAYS PARTS & LABOUR

1.5 PERCENT MONTHLY INTEREST ON OVERDUE ACCOUNTS

FUSE F11 NOT BLOWING WHILE TECH WAS ON SITE

CORRECTION:

- CHECK SCHEMATIC FOR FUSE F11 FUNCTION
- CHECK FUSE F11 CIRCUIT FOR LOOSE WIRING, NOTHING FOUND
- STOP AND IGNITION SWITCH ARE OPERATING WITH NO FAULTS
- CHECK POWER RELAYS FOR LOOSE CONNECTIONS, ALL IS TIGHT
- CHECK CIRCUIT BREAKER FOR LOOSE CONNECTIONS, ALL IS TIGHT.
- RIG IS NOT BLOWING THE FUSE AT THIS TIME
- SECOND CALL OUT FOR SAME ISSUE
- ISOLATE F11 CIRCUIT BY UNPLUGGING INTERCONNECTS
- FOUND STOP SWITCH BEING UP PLUGGED WILL NOT BLOW FUSE
- TEST STOP SWITCH , IT IS OK
- ISOLATE AUX CHARGE PORTS, FUSE NOT BLOWING
- LEAVE LEFT CONSOLE AUX PORT UNPLUGGED , FUSE NOT BLOWING, NO SHUT DOWN
- THIRD CALL OUT
- RUN NEW WIRE FROM STOP TO IGNITION SWITCH , FUSE STILL BLOWS
- JUMPER BATTERY POWER STRAIGHT TO STOP SWITCH WITH IN LINE FUSE
- FUSE NOT BLOWING
- MAKE TEMPORARY HARNESS AND BYPASS ALL INTERCONNECTS
- FUSE NOT BLOWING AND RIG CONTINUES TO RUN
- TECH BACK AT DRILL FOR A DIFFERENT REPAIR, FUSE IS BLOWING
- CHECK ALT AND STARTER CONNECTIONS, GOOD
- TROUBLE SHOOT FLOWING SCHEMATIC
- FOUND PROBLEM WITH WIRE 201 YL, START POWER RELAY
- REMOVE WIRE 201 YL FROM IGNITION SWITCH, FUSE NOW DOES NOT POP
- OHM OUT WIRE 201 YL WILE DISCONNECTED, GOOD
- INSTALL NEW POWER RELAY
- RIG CONTINUES TO RUN

THANK YOU FOR YOUR BUSINESS

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DONE 6728 HRS

- RIG IS TARPED IN AND IS VERY HOT INSIDE
- ADVISE OPERATOR TO REMOVE THE TARP FROM THE ENGINE TO ALLOW COOL AIR FLOW .
- CHECK PUMP BAY COOLING FAN , IT IS WORKING
- CHECK HYDRAULIC COOLER FANS , BOTH NOT WORKING
- CHECK POWER AND GROUND TO FANS, GOOD
- ADVISE CUSTOMER RIG NEEDS TWO NEW COOLING FANS.
- REMOVE FANS
- CUT OUT PREVIOUSLY REPAIRED WIRING
- INSTALL NEW DEUTZ CONNECTIONS ON NEW FANS AND INSTALL
- INSTALL NEW DEUTZ CONNECTIONS ON HARNESS
- PLUG IN AND SECURE WIRING
- COOLING FANS NOW WORK AS INTENDED

DONE 6728 HRS

2	296319538	COOLER - FAN	288.57	577.14
1		SHIPPING CHARGES PARTS	386.71	386.71
			Total Labor	2,079.00
		Total for segment		3,042.85

		ENVIRONMENTAL CHARGE		224.20
		MISCELLANEOUS SHOP SUPPLIES		155.22
Total parts	2,003.20	Total labor	3,449.25	Total misc 761.51
				Sub Total 6,213.96
		GST		310.70

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Amount Due
 Due By:
 01/27/19

6,524.66