

A01-35

ALTORFER

8400 6th St. SW
Cedar Rapids, IA 52404
319-365-0551
www.altorfer.com

Bill To:

37 3 SP 2.170 E0037X I0813 D14572690612 S2 P10885564 0001:0013



VIETH CONSTRUCTION CORP
6419 NORDIC DR
CEDAR FALLS IA 50613-6338

Ship To:

259

ORIGINAL INVOICE

INVOICE NUMBER WO100250776
Invoice Date 08/28/2025
Total Due \$23,014.78

Terms	NET 30
Make	AA
Model	259D W
Serial #	*CAT0259DLFTL09057*
Machine ID	166N053
Equipment #	166N053
Meter Reading	3512.0
Document #	CC59037

TO VIEW AND PAY ONLINE: <https://altorfer.billtrust.com>
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PLEASE REMIT TO:

ALTORFER INC.
PO Box 809629
Chicago, IL 60680-8802

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Customer #	Customer PO #	Doc Date	Sales Representative	Division	Store	Account Status
660885	TOM TANDY	07/16/2025	P01	G	10	2

TAKE&ANAL S-O-S SAMP FROM MACHINE

CUSTOMER COMPLAINT

S.O.S. SAMPLING OF MACHINE

CAUSE OF FAILURE

STANDARD SHOP PROCEDURE

CORRECTION

RETRIEVED LIVE S.O.S. SAMPLE FROM MACHINE'S
HYDRAULIC CIRCUIT. RETRIEVED CONVENTIONAL S.O.S.
SAMPLES FROM MACHINE'S ENGINE OIL PAN AND BOTH
FINAL DRIVES.

CONTINGENT DAMAGE IF ANY

NONE

COMPLICATIONS IF ANY

NONE

4 SOS SINGLE OIL ANALYSIS S 13.00 52.00

46530

TOTAL PARTS SEG. OS 52.00 *
LESS 100%-PARTS 52.00-*

TOTAL AMOUNT DUE**Cont'd**

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SEGMENT OS TOTAL .00 T

CLEAN MACHINE

CUSTOMER COMPLAINT
CLEAN MACHINE

CAUSE OF FAILURE
STANDARD SHOP PROCEDURE

CORRECTION
REMOVED MACHINE'S BELLY PANS. RAISED MACHINE'S
CAB. OPENED MACHINE'S ENGINE ACCESS DOOR. WASHED
MACHINE SO THAT IT WOULD BE PASS CONTAMINATION
CONTROL GUIDELINES WHILE IN THE SHOP.

CONTINGENT DAMAGE IF ANY
NONE

COMPLICATIONS IF ANY
NONE

CLEAN	3.50 RT HOURS	46010	430.50
	TOTAL LABOR	SEG. 01	430.50 *
	SEGMENT 01 TOTAL		430.50 T

TROUBLESHOOT AFTERTREATMENT SYSTEM

CUSTOMER COMPLAINT
523602- 0 AFTERTREATMENT REGENERATION FREQUENCY :
HIGH - MOST SEVERE (3) CODE ON MACHINE'S MONITOR,
AND MACHINE HAS LOW POWER

TOTAL AMOUNT DUE

Cont'd

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CAUSE OF FAILURE

FAILURE TO ALLOW MACHINE TO GO THROUGH COMPLETE
REGEN CYCLE.

CORRECTION

PERFORMED CYLINDER CUTOFF TEST ON MACHINE TO CHECK
DELIVERED FUEL VOLUME GOING TO CYLINDERS. MADE
SURE FUEL VOLUME WAS WITHIN SPECIFICATION. NOTICED
FUEL TRANSFER PUMP WAS NOT WORKING AND FUEL
FILTERS WERE DIRTY. FOUND TRANSFER PUMP FUSE WAS
BLOWN. REPLACED DIRTY FUEL FILTERS AND BLOWN FUSE.

FOUND TRANSFER PUMP WAS STILL NOT WORKING.
TROUBLESHOT AND REPLACED FAILED TRANSFER PUMP.
STARTED MACHINE AND FOUND THAT TRANSFER PUMP WAS
WORKING AND THAT CODE WAS STILL ON MACHINE'S
MONITOR AND THAT MACHINE WAS STILL LOW ON POWER.
REMOVED VALVE COVER FROM ENGINE. REMOVED AND
TESTED FUEL INJECTORS. ALL INJECTORS TESTED GOOD
WITH PROPER SPRAY PATTERNS AND NO LEAKS.
REINSTALLED FUEL INJECTORS IN ENGINE WITH NEW
SEALS, NEW FUEL INJECTION LINES, AND NEW GASKETS
ON OVERFLOW TUBE. TORQUED INJECTOR HOLD-DOWN
HARDWARE AND OVERFLOW TUBE HARDWARE TO PROPER
SPECIFICATIONS. INSTALLED VALVE COVER ON ENGINE
WITH NEW VALVE COVER SEAL, INJECTOR SEALS, AND
INJECTION LINE SEALS. TORQUED VALVE COVER BOLTS TO
SPEC. REMOVED TURBO PIPING TO SEE IF THERE WAS
OIL BEING PUSHED INTO INTAKE MANIFOLD. DID NOT
FIND ANY OIL IN INTAKE TUBING. CHECKED END PLAY IN
TURBO AND DISCOVERED TURBO BEARING WAS STARTING
TO FAIL. REMOVED AND CUT OPEN ENGINE OIL FILTER
AND FOUND FINE METAL PARTICLES INSIDE FILTER
ELEMENT, INDICATING INTERNAL ENGINE COMPONENT WAS

TOTAL AMOUNT DUE**Cont'd**

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STARTING TO WEAR. COLLABORATED WITH SUPERVISORS ON
WHAT NEXT STEP SHOULD BE. WAS INSTRUCTED TO
REASSEMBLE MACHINE.

CONTINGENT DAMAGE IF ANY

COMPLICATIONS IF ANY

1	3096932	45005	HYDO 10W-1 GAL	S	21.99	21.99
3	5153960	45005	DEO-ULS 10W30 BULKS		16.24	48.72
1	4J-5477	45010	SEAL O RING	S	1.24	1.24
3	6V-8397	45010	SEAL	S	1.32	3.96
1	6V-8837	45010	BOLT	S	.19	.19
1	8T-4200	45010	BOLT	S	.33	.33
1	113-8491	45010	FUSE	S	1.32	1.32
6	342-9922	45010	BOLT-FLANGE	S	1.46	8.76
1	363-5819	45010	ELEMENT AS-F	S	29.11	29.11
1	377-6969	45010	FILTER-LUBE	S	21.06	21.06
4	383-0519	45010	PACKING	S	1.22	4.88
1	387-9829	45010	GASKET	S	23.32	23.32
4	388-7492		SEAL	S	10.71	42.84

TOTAL AMOUNT DUE**Cont'd**

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CORRECTION

REMOVED RADIATOR GRILL AND MOUNTING PANEL. DRAINED COOLANT. DISCONNECTED HOSES FROM COOLERS AND CAPPED LINES. REMOVED INTAKE PIPES. REMOVED COOLERS AND RADIATOR FAN ASSEMBLY. REMOVED AIR CLEANER ASSEMBLY. REMOVED BATTERY AND A/C COMPRESSOR, HUNG COMPRESSOR TO THE SIDE. DISCONNECTED AND LABELED HARNESS AND FUEL LINES. CAPPED LINES. REMOVED EXHAUST PIPE. REMOVED MOTOR MOUNT BOLTS. RAISED CAB. REMOVED PUMP MOUNT BOLTS. SUPPORTED PUMPS AND PULLED FORWARD OUT OF FLYWHEEL COUPLER. REMOVED PANEL FROM FIREWALL. REMOVED ENGINE. PLACED ON STANDS. INSTALLED NEW HARNESS ON NEW ENGINE. REMOVED BRACKETS FROM OLD ENGINE AND INSTALLED ON NEW ENGINE. INSTALLED NEW PUMP COUPLER IN NEW ENGINE AND INSTALL FLY WHEEL HOUSING COVER WITH MOUNT FROM OLD ENGINE. CLEANED DEBRIS OUT OF BOTTOM OF ENGINE BAY. INSTALLED ENGINE IN MACHINE. INSTALLED MOTOR MOUNT HARDWARE. HAD AN ASSISTANT TURN ENGINE, LINED UP PUMP SHAFT WITH COUPLER AND SLID TOGETHER, INSTALLED PUMP HARDWARE. INSTALLED NEW ECU. CONNECTED HARNESS AND FUEL LINES. INSTALLED AIR CLEANER ASSEMBLY. INSTALLED NEW AIR FILTERS. INSTALLED COOLERS WITH FAN. HOOKED UP LINES AND INSTALLED NEW O RINGS FOR HYDRAULIC FITTINGS. FILLED ENGINE WITH OIL AND COOLANT. INSTALLED BATTERY AND CABLES. INSTALLED A/C COMPRESSOR AND ADJUSTED BELT. TORQUED ALL HARDWARE. TURNED ON POWER AND PRIMED FUEL SYSTEM. STARTED UP ENGINE AND CHECKED FOR LEAKS, WERE NONE. INSTALLED RADIATOR GRILL. RAN THE MACHINE FOR A WHILE. BROUGHT BACK IN. CHECKED FOR LEAKS, WERE NONE. CHECKED AND TOPPED OFF FLUIDS AS

TOTAL AMOUNT DUE

Cont'd

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NEEDED.

CONTINGENT DAMAGE IF ANY

COMPLICATIONS IF ANY -

3	5153960		DEO-ULS 10W30 BULKS		16.24	48.72
		45005				
18	3S-2093		TIE	S	.25	4.50
		45010				
9	7K-1181		TIE	S	.48	4.32
		45010				
1	345-3548		COUPLING	S	137.63	137.63
		45010				
1	345-3550		ENGINE AR-PR	S	14003.27	14003.27
		45010				
1	450-9634		HARNESS AS	S	360.61	360.61
		45010				
			TOTAL PARTS	SEG. 05		14559.05 *
				F/R LBR		3640.00 *
			SEGMENT 05 TOTAL			18199.05 T

ADDITIONAL CHARGES ENGINE

CUSTOMER COMPLAINT

ADDITIONAL ITEMS NOT IN THE ENGINE QUOTE.

CAUSE OF FAILURE

CORRECTION

REPLACED FUEL LINES AND CLAMPS AS NEEDED. REPLACED
FRONT MOTOR MOUNT RETAINER PINS. CLEANED HYDRAULIC
PUMP. INSTALLED VACUUM KIT IN HYD TANK. REPLACED

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PUMP SHAFT SEAL. REPLACED RADIATOR CAP. TOPPED OFF
HYDRAULIC TANK. NEW ENGINE HAS 2 HEATERS FOR
CRANK CASE VENT LINES. REPLACED LINE HEATER
HARNESS WITH NEW HARNESS FOR BOTH HEATERS.

CONTINGENT DAMAGE IF ANY

COMPLICATIONS IF ANY

2	3145168		HYDO 10W-BULK	S	21.26	42.52
		45005				
6	1P-4278		CLAMP	S	2.00	12.00
		45010				
40	5P-1507		CM-HOSE STK	S	.12	4.80
		45010				
4	5P-7177		RETAINER	S	.51	2.04
		45010				
8	8T-4121		WASHER	S	.64	5.12
		45010				
4	8T-4133		NUT	S	.45	1.80
		45010				
1	036-1865		CAP A	S	11.52	11.52
		45010				
100	103-2529		CM HOSE	S	.15	15.00
		45010				
1	110-6326		MAIN ELEMENT	S	51.93	51.93
		45010				
1	110-6331		ELEMENT	S	37.00	37.00
		45010				
4	183-7121		BOLT	S	1.19	4.76
		45010				
3	238-8648		COOLANT-ELC	S	17.54	52.62
		45010				

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CUSTOMER COMPLAINT

CAUSE OF FAILURE

CORRECTION

DISCOUNTS OFFERED AT THE TIME OF REPAIRS
-----CONTINGENT DAMAGE IF ANY
-----COMPLICATIONS IF ANY

1.00-	POWER TRAIN REB	12712	3612.98-
	TOTAL MISC CHGS	SEG. 90	3612.98-*
	SEGMENT 90 TOTAL		3612.98-T

TOTAL PARTS DISCOUNT	1394.30-	
SUPPLIES		206.80 T
IOWA SALES TAX		1065.41 T
1% CITY TAX		213.08 T
ADD'L 1% SALES TAX		213.08 T

PLEASE DIRECT WORK ORDER INQUIRIES TO
THE SERVICE DEPARTMENT: PH 319-365-0551

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