

SERVICE INVOICE

Invoice Date: 08-08-25

Due \$7,000.16

Make AA

Model 299D2 XHP

Serial # *CAT0299DEDX200579

Equip No

Machine ID C71795

Meter Reading 3199.0

PSOWO WF49234

Doc Date	Salesman	Division	Store	Terms
07-28-25	856	G	08	2

Quantity	Item	Description	Unit Price	Extension
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TROUBLESHOOT ENGINE COOLING SYSTEM

CUSTOMER COMPLAINT: ENGINE OVERHEATING.
 CAUSE OF FAILURE: UNKNOWN
 RESULTANT DAMAGE: UNKNOWN
 REPAIR PROCESS COMMENTS: INSPECT COOLING SYSTEM FOR LEAKS. FOUND NO LEAKS AND SYSTEM WAS FULL OF COOLANT. RUN MACHINE 30 MIN. IN SHOP WITH A/C ON DID NOT OVERHEAT.
 HOOK UP ET AND CHECK FOR CODES. NO ACTIVE CODES PRESENT DID HAVE LOGGED EVENT 361-3 FOR OVERHEATING.
 DROVE MACHINE OUT SIDE IN RABBIT MODE FOR 30 MIN. DID NOT OVERHEAT. LATTER THAT DAY RAN MACHINE OUT SIDE WHEN AMBIENT TEMP. WAS 99 F.
 ENGINE OVERHEATED AND SET CODE 361-3. VERIFIED ENGINE TEMP WITH TEMP. GUN AT SENSOR LOCATION. PERFORM FAN SPEED CALIBRATION PROCEDURE. TESTED MACHINE AGAIN STILL OVERHEATED. REMOVED THERMOSTAT AND PERFORMED TEST (104793510)
 RESULTS THERMOSTAT DID NOT MEET FACTORY SPECIFICATION. REPLACED THERMOSTAT AND TESTED MACHINE AGAIN. RESULTS STILL OVERHEATED.
 DURING TEST DRIVE ENGINE SHUT DOWN AND SET CODE 523612-5 FOR PRE STROKE CONTROL VALVE CURRENT BELOW NORMAL.
 T/S THAT CODE AND FOUND OPEN IN ENGINE HARNESS BETWEEN ECM AND VALVE. T/S HARNESS FOUND A FUEL LEAK AT #4 INJECTOR LINE AT FUEL RAIL CONNECTION. MADE REPAIRS IN THE FOLLOWING SEGMENTS. ***DAVID WAMBLE ***

TOTAL LABOR SEG. 01

SEGMENT 01 TOTAL

REPLACE THERMOSTAT/WATER TEMP REG

WE APPRECIATE YOU

Terms of Payment: (Performance under this inv. policy. ALL PRICES SUBJ and available at <http://www>

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CUSTOMER COMPLAINT: ENGINE OVERHEATING.
 CAUSE OF FAILURE: UNKNOWN
 RESULTANT DAMAGE: UNKNOWN
 REPAIR PROCESS COMMENTS: DRAIN COOLING SYSTEM IN
 CLEAN PAN. CHECK FREEZE POINT & BOILING POINT.
 RESULTS COOLANT WAS IN GOOD CONDITION.
 DISCONNECT RADIATOR FROM THERMOSTAT HOUSING.
 REMOVE THERMOSTAT, CLEAN GASKET SURFACES. INSTALL
 NEW THERMOSTAT & GASKET.
 VACUUM FILL COOLING SYSTEM WITH SAVED COOLANT.

***DAVID WAMBLE ***

1	389-5305	GASKET	S
1	389-5308	REGULATOR AS	S

TOTAL PARTS SEG. 0

TOTAL LABOR SEG. 0

SEGMENT 02 TOTAL

REPLACE QUICK COUPLER

CUSTOMER COMPLAINT: DIFFICULT TO OPERATE.
 CAUSE OF FAILURE: SPRINGS DID NOT RETRACT PINS ALL
 THE WAY.
 PIN BORE VOID OF GREASE.
 RESULTANT DAMAGE: PIN BORES ROUGH & RUSTED
 REPAIR PROCESS COMMENTS: REMOVE LEFT AND RIGHT
 COUPLER LOCK ASSEMBLIES. FOUND LOCK PINS WORN,
 SPRINGS COLLAPSED, WASHERS HAD FLAT SPOTS WORN ON
 TOP.
 GREASE FITTINGS FOR PINS DID NOT TAKE GREASE.
 REPLACED WORN ASSEMBLIES AND GREASE FITTINGS. HAD
 TO RETAP ONE THREADED HOLE FOR GREASE FITTING.
 HOOK UP TWO DIFFERENT ATTACHMENTS COUPLER
 OPERATION WAS NORMAL. ***DAVID WAMBLE ***

2	5B-0651	FITTING	S
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Quantity	Item	Description	Unit Price	Extension
2	6V-7744	LOCKNUT		
2	8T-4172	BOLT		
2	192-2645	SPRING		
4	310-6660	PIN-SPRING		
6	315-5493	WASHER		
1	345-5132	HANDLE		
1	345-5135	HANDLE		
2	388-7978	PLATE		
2	424-5546	PIN		

TOTAL PARTS SEG. (

TOTAL LABOR SEG. (

SEGMENT 03 TOTAL

REPLACE FUEL INJECTION LINES

CUSTOMER COMPLAINT: FUEL LEAK
 CAUSE OF FAILURE: LINE WAS LOOSE WORE SEAT.
 RESULTANT DAMAGE: LOSE OF FUEL
 REPAIR PROCESS COMMENTS: REMOVE NECESSARY PARTS TO
 GAIN ACCESS TO #4 FUEL LINE. REPLACE FUEL LINE AND
 TORQUE CONNECTIONS TO 22 FT. LB.
 START ENGINE AND CHECK FOR LEAK. RESULTS NO LEAK
 PRESENT. ***DAVID WAMBLE ***

1 482-8438 PIPE-INJECTI N

TOTAL PARTS SEG. (

TOTAL LABOR SEG. (

SEGMENT 04 TOTAL

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Quantity	Item	Description	Unit Price	Extension		

REPAIR ENGINE WIRING HARNESS

CUSTOMER COMPLAINT: ENGINE SHUT DOWN.
CAUSE OF FAILURE: OPEN CIRCUIT TO PRE-STROKE
CONTROL VALVE.
RESULTANT DAMAGE: NONE.
REPAIR PROCESS COMMENTS: SOLDER & HEAT SHRINK WIRE
TO REPAIR OPEN CIRCUIT IN HARNESS. *
WAMBLE***

TOTAL LABOR SEG. 05

SEGMENT 05 TOTAL

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Salesman

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Store

Terms

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G

08

2

07-28-25

Quantity

Item

Description

Unit Price

Extension

Parts

\$745.02

Labor

\$6,102.58

Misc.

\$152.56

Tax

\$0.00

TOTAL**\$7,000.16**