

DB866L

Service

Work Order: 4-115386

Date: 5/17/2017

Salesperson: Bill D. Waugh

Mileage: 749,597

TERRY'S SEPTIC

ONAWA IA 51040

766,663 comment

17,066 on new motor

Mileage 749,597

Engin R&R with Reman from DM

Customer Unit: 952038

Type: 9000 - Truck

Y/M/M: 1998 FREIGHTLINER FLD120SD

VIN: 1FVNFDYB8WP952038

Mileage: 749,597

Engine

Engine

Complaint:

Engine is bad. Customer had truck towed in. Replacing engine with VanderHaag Reman.

Correction:

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Pulled ECM off of engine and sent to DM so they could set parameters for rebuilt engine being built. Pulled truck into shop and started remaoval process. removed all piping and drained coolant. Removed all hoses and disconnected all wiring from engine. Removed CAC/Rad assembly. During wireing removal found parts hardwired to cab assembly. Removed fuel lines. Disconnected shift tower from transmission. Removed PTO/Pump assembly. Disconnected driveline, transmission supprt bar and tokk motor mounts loose. Removed engine/Transmission assembly together. Set on jack stands and removed transmission clutch, and flywheel. Clutch and flywheel both look good. Started moveing parts from old engine to new engine. Had to make new hoses for air compressor as new engine had updated version and hose were different. Installed all accesories on new engine. Noticed that oi pressure sensor was broken and ordered a new one. Routed engine harness onto engine. Clocked turbo, installed flywheels clutch and transmission. Installed engine/transmission into chassis. Had to swap oil pan due to the new engine was front sump and old was a rear sump engine. Dissassembled radiator assembly and installed new radiator and charged air cooler. Flushed heater core and fuel tank heater. Hooked up hoses and wires to transmission. Installed driveshaft, PTO, and pump assembly. Re-connected shift tower and airlines. Hooked up all coolant hoses and piping. Connected all electrical wires and secured them. Found 1 battery cable to be worn and corroded and replaced end with new. Had to install new flexpip for exhaust. Fixed pyrometer wires. Put oil, and coolant in. Finished installing intake pipes. Replaced air-filters. Truck cranked for a little bit then fired right up. Let it run for a few minutes until I noticed hole in power-steering hose. Replaced hose and put fluid in. Bled system and moved truck outside. Uncaged the brake cans before moving it. Let it sit outside and run for about an hour while I cleaned the bay and put my tools away. Oil leak coming from oil fill-tube hose. Hose will need replaced as it's torn. Charged AC while I repaired airleak at fan-solenoid and tied up hoses. Topped off coolant. Fixed oil leak, cut out old fill-tube hose and replaced with new. Started truck and when I raised idle the truck started surging. Tachometer also didn't work. Found I had two connectors needed to be swapped. Tach now works and it doesn't surge anymore. Took on test-drive with Danny. Tightened loose clamp at CAC. Went on testdrive again and was ok. Checked for leaks and found none. Parked truck and cleaned bay.

Parts (Job 206265)

Item	Description	Price	Qty	Amount
GMS B50045	1/2"SAE FLRD PLGBRASS FTG		2	
GMS B50056	1/2"SAE FLRD CAPBRASS FTG		2	
24560628	VHI REMAN DROP IN N14 CELECT PLUS WITH JAKES Tag#8934; Warranty 1 Year Parts & Labor; Assy# CPL 2592; Serial# 11934674-; Horsepower 435		1	
24560628 CORE	Inherent core charge on 24560628 VHI REMAN DROP IN N14 CELECT PLUS WITH JAKES Tag#8934		1	
24560628 CORE	Core exchange credit for Inherent core charge on 24560628 VHI REMAN DROP IN N14 CELECT PLUS WITH JAKES Tag#8934; Assy# CPL 2025; Serial# 11871618; Horsepower 435		-1	
SS V306SS	BEARING W/VITON SEALS 1.18" pilot diameter 2.84" outside diameter		1	
GMS B65454	1/2" MIP x FIP MINI BALL VALVE		1	
SS S-15404	V BELT INTERMEDIATE PULLEY, W/O P.S., W/A.C. (CAST IRON BLOCK)		1	
GMS B22353	3/8X1/4 PIPE BR. BSHG (5284)		1	
GMS B22355	1/2X1/4 PIPE BR. BSHG (5286)		1	

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AM GDY65004	3/4" HEATER HOSE PER FOOT; Size 3/4	1
NR 239311	FREIGHTLINER RADIATOR- 37 x 31 7/8 x 2 5/8 Part Info 4 ROW RADIATOR WO/ COOLER, WITH FRAME. FITS FLD112, 120, 132, CLASSIC XL 1985-1998 CORE HEIGHT: 37 CORE WIDTH: 31 7/8 DEPTH: 2 5/8 - 4 ROW INLET: 2 1/2 UPPER LEFT, 5 1/2" IN OUTLET: 3 LOWER RIGHT - 6" IN OIL COOLER: NO RELATED ITEM: BOLT ON SURGE TANK	1
FRT PH208210808	; Height 37; Width 32; Thickness 2.75 #8 STRATOFLEX FITTING	1
FRT PH2392188	#8 STRATOFLEX FITTING 90 DEGREES	1
GMS B50172	1/2X1/2SAE M/ELBOWBRASS FTG	1
GMS B50218	1/2X3/8 SAE MALE CON BRASS F	1
VN 3/8 STRATOFLEX	#6-3/8 STRATOFLEX HOSE SOLD BY THE FT.; Size 3/8	1
GMS B22304	1/2 Brass ST elbow fitting	1
GMS B22144	1/2 Brass pipe coupling fitting	1
GMS B22224	1/2 Brass hex nipple fitting	1
GMS B50172	1/2X1/2SAE M/ELBOWBRASS FTG	1
GMS B50174	5/8X1/2SAE M/ELBOWBRASS FTG	1
GMS B22181	1/8 Brass plug fitting	1
MB 154916	POWER STEERING PUMP GASKET (PAPER)	1
MB 4921487	(CUM) - SENSOR - PRESSURE, OIL	1
BY NTO4100	1/4" NYLON TUBING 100'; Size 1/4; Material Nylon	1
GMS B24111	1/4 AR BRK BRASS INSERT	1
GMS B24101	1/4 AR BRK BRASS SLEEVE	2
GMS B24121	1/4 AR BRK BRASS NUT	2
MB 204165	Bolt - Flywheel	1
GMS G8CS062550	5/8-11X5-1/2 PERMA PLATED LA	1
GMS G8HN062	5/8-11 G8 USS hex nut	2
GMS G8US062	5/8 G8 SAE TRU-TORQ flat washer	2
GMS G8LW062	5/8 G8 lockwasher	2
VH DIAGNOSTIC-HOOKUP	Diagnostic Hookup	1

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VN CB1120-3
NR 222032

CAC Isolator

4

FREIGHTLINER CHARGE AIR COOLER w/ SOFT MOUNT
DESIGN. FITS 1991- PRESENT CONVENTIONAL CAB FLD
120, 132 WITH CUMMINS M11, N14, CAT 3406, C10, C12,
DETROIT SERIES 60 ENGINES
INLET: 4
OUTLET: 4

1

; Height 30.5; Width 21.25; Thickness 2.75

GMS G8HN050	1/2-13 G8 USS hex nut	1
GMS G8US050	1/2 G8 SAE TRU-TORQ flat washer	2
GMS G8LW050	1/2 G8 lockwasher	1
GMS G8CS050150	1/2 X 1.5 G8 USS hex bolt	1
GMS G8HN050	1/2-13 G8 USS hex nut	2
GMS G8US050	1/2 G8 SAE TRU-TORQ flat washer	4
GMS G8LW050	1/2 G8 lockwasher	2
GMS G8CS050150	1/2 X 1.5 G8 USS hex bolt	2
GMS B34300	3" BLUE STICK HOSE SOLD BY THE INCH	6
GMS B34250	2.5" BLUE STICK HOSE SOLD BY THE INCH	6
GMS G8CS050200	1/2 X 2.0 G8 USS hex bolt	1
AM GDY65004	3/4" HEATER HOSE PER FOOT; Size 3/4	1
MB 3099083	GASKET,OIL PAN, N14, & 855	1
MB 3066211	Seal - O-Ring	1
GMS B24111	1/4 AR BRK BRASS INSERT	1
DO J024838	5" X 24" STAINLESS FLEX CUT; Size 5; Length 24"	1
DO J000217	5" EASY SEAL CLAMP; Size 5	2
GMS E29119	1/0X1/2 STUD H.D. EYELET	1
GMS E53006	3/4 HD HEAT SHRINK	1
AO 9007541401	15W40 ALLIED MTX PLUS DEO CJ-4 (QT)	38
PPI COOLANT PLUS 50/50	COOLANT PLUS GOLD HD (HOAT) 50/50 UNIVERSAL EXTENDED LIFE ANTIFREEZE	13
AM GDY65004	3/4" HEATER HOSE PER FOOT; Size 3/4	4
AO 900AT19DX55	DEXTRON ATF (GAL)	1
GMS B34150	1.5" BLUE STICK HOSE SOLD BY THE INCH	3

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PPI COOLANT PLUS 50/50 COOLANT PLUS GOLD HD (HOAT) 50/50 UNIVERSAL
VN R134A-BULK EXTENDED LIFE ANTIFREEZE
R134A FREON PER POUND UNIT

1

1

Job Parts Total:

Labor
Shop Fee
EPA Fee

Job Total

Subtotal: \$ 2718.52
Tax: \$ 1866.47
Total: \$ 29024.99