

Repair Order Detail - Internal Copy

RO Number: 312145

RO Status: READY TO POST

Customer: FEED COMMODITIES LLC

Phone(s): Contact: (253)572-5078

Vehicle: 1HTJKTLT9DJ329689

Main: (253)572-5078

2013 150

[Click to View Cust Copy](#)

Cell:

Mileage: 198,513

Service advisor: 5884

Tag number: T4004770

Payment type: CHG

Promised time: 05:00 PM

Promised date: 10/05/2024

Waiter: No

Estimate: 78,000.00

Customer Comments: No

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A	NO START POSSIBLY OVER HEATED			
	A81-2002A	CS1	Repair Management	3.50 623.00
			Estimating Use	
			Only-General	
			Diagnostics	
	Tech(s): 5872, 7738, 7733, 6161, 7722, 8066, 6024			
	G20-T1	CS1	COMPUTER AND SOFTWARE FEE	0.75 133.50
	Tech(s): 6024			
	G20-T1	CS1	REPLACE FAILED BATTERIES	1.00 178.00
	Tech(s): 6024			
	FLTBTG31950		4 BAT, GRP,BATTERY, GROUP 31, 95	841.08
	FLTBTG31950		-4 CORE RETURN	-76.80
	G20-T1	CS1	REPLACE FUSES AS NEEDED	0.10 17.80
	Tech(s): 6024			
	3687474C1		1 FUSE,BAR 75A FUSE	32.92
	G20-T1	CS1	REPLACE EGR COOLER	21.00 3,738.00
	Tech(s): 6024			
	3008056C95		1 COOLER, ASSY EGR	4,038.08
	3014824C91		1 COOLER,KIT COLDSIDE TUBE GASKE	53.31
	FRT		1 FREIGHT	500.00
	3006736C2		1 GASKET EGR	69.29
	1842415C1		2 BOLT STUD M10 X 20 X 35	56.84
	1818235C1		3 BOLT M10X1.5X40MM	26.22
	1850798C1		1 SEAL EGR COOLANT TUBE	47.51
	3846392C1		2 GASKET 4" EXH PIPE FLANGE	59.68
	1883141C1		1 RING O 2-230 3.53 X 63.09 ID	28.89
	5013380R91		-1 CORE RETURN	-600.00
	G20-T1	CS1	REMOVE AND REINSTALL DPF/DOC FOR COOLANT CONTAMINATION	3.50 623.00
	Tech(s): 6024			
	2608438C91		1 FILTER,KIT DPF HORIZONTAL	7,565.99
	2612510C91		1 PURIMUFL,AFTERTREATMEN T, DEVIC	4,574.49
	3014493C91		1 MANIFOLD,KIT HOTSIDE	554.47

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GASKETS &				
2604051C91		1 GASKET TAPE EXHAUST		83.24
3/4"X36YDS				
3846392C1		1 GASKET 4" EXH PIPE		29.84
FLANGE				
G20-T1	CS1	QUICK LUBE SERVICE	0.50	89.00
Tech(s): 6024				
G20-T1	CS1	REPLACE FAILED EXHAUST	14.50	2,581.00
MANIFOLD AND GASKET				
Tech(s): 6024				
FRT		1 FREIGHT		65.00
3014492C91		1 MANIFOLD,KIT EXH MANIF		998.94
BOLTS &				
3846392C1		2 GASKET 4" EXH PIPE		59.68
FLANGE				
1828532C1		2 RING O #011		7.10
3014693C91		1 SEAL,KIT TURBO SEALS		190.05
FRT		1 FREIGHT		224.00
3006757C1		4 RING O EXHAUST		128.56
MANIFOLD				
FRT		1 FREIGHT		65.00
1883301C1		1 BOLT HEX FLANGE HD M10		12.59
X 110MM				
1883302C1		2 BOLT HEX FLANGE HD M10		68.26
X 160MM				
1883303C1		2 BOLT HEX FLANGE STUD		67.46
M10X110				
2608438C91		-1 CORE RETURN		-720.00
2612510C91		-1 CORE RETURN		0.00
62902010277		3 STUD M10X45-SD HWF		36.15
3006707C1		6 BOLT HEX FLANGE M8 X		124.68
45 B16				
3846392C1		1 GASKET 4" EXH PIPE		29.84
FLANGE				
3744063C1		5 BOLT , SPECIAL M10 X		7.70
45 MM LON				
1883141C1		1 RING O 2-230 3.53 X		28.89
63.09 ID				
G20-T1	CS1	TOW VEHICLE INTO/OUT	2.00	356.00
OF SHOP - INOPERATIVE				
VEHICLE				
Tech(s): 6024				
G20-T1	CS1	CYLINDER HEAD REPLACE	68.00	12,104.00
WITH NEW, REPLACE				

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PISTONS, LINERS AND  
CONNECTING ROD  
BEARINGS

Tech(s): 6024

1817958C1

3 BOLT CRANKCASE

20.31

M8X30-10.9 HF

3018016C2

1 GASKET, HC INJ

50.39

FLTEC400TST

1 CLAMP,GENERAL PURPOSE

38.13

DESIGN V

1079127R11

17 BOLT HH W/WASHER

46.24

1/4-20 X 1 1/

6086066C2

1 TEE , HOSE

26.59

CONNECTOR-3/8 -

FRT

1 FREIGHT

65.00

55555

1 BOLT

81.66

FLTRELC5050G

10 FLUID,FLEETRITE RELC

99.50

5050 GAL

3016007C92

1 GSKT SET,KIT,CYLINDER

1,251.21

HEAD I-

7092005C91

1 FILTER,KIT, OIL FILTER

80.04

3014428C91

6 PACKAGE,KIT PISTON

7,973.28

SLEEVE & RI

3007165C1

1 GASKET OIL PAN

271.76

3014421C91

1 BEARING,KIT MAIN

279.75

BEARING NORMA

3007136C1

1 PLATE SPACER

438.64

5010856R92

1 HEAD,KIT, REMAN 15L

13,140.00

CYL HEAD I

FRT

1 FREIGHT

65.00

FRT

1 FREIGHT

179.00

BDT18108X

10 CABLE TI

5.00

3014421C91

6 BEARING,KIT MAIN

1,678.50

BEARING NORMA

FRT

6 FREIGHT CHARGE

420.00

1819716C1

1 RING O SIZE 329

23.21

3007882C1

1 SEAL O-RING

5.46

3014413C91

6 BEARING,KIT CONNECTING

1,039.02

ROD BRG

3007097C1

24 BOLT 12PT M11 X 1.25 X

990.48

84

BDT301530FT

2 240 GRIT EMERY

1.38

BDTMS01245455

2 LUBRIPLATE 105 GREASE,

47.78

10 OZ T

3006762C2

1 GASKET THROTTLE BODY

12.07

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|               |           |                         |           |                                       |
|---------------|-----------|-------------------------|-----------|---------------------------------------|
| ~~~~~         |           |                         |           |                                       |
| 3857388C2     |           | 1 RING O                |           | 10.36                                 |
| 5010856R92    |           | -1 CORE RETURN          |           | -600.00                               |
| G20-T1        | CS1       | STARTER MOTOR -         | 3.00      | 672.00                                |
|               |           | REPLACE                 |           |                                       |
| Tech(s): 6024 |           |                         |           |                                       |
| 8200308       |           | 1 STARTER,MOTOR STARTER |           | 584.59                                |
|               |           | 39 MT 12                |           |                                       |
| G20-T1        | CS1       | REPLACE WATER PUMP      | 2.50      | 445.00                                |
|               |           | ASSY AND GASKETS        |           |                                       |
| Tech(s): 6024 |           |                         |           |                                       |
| 3007644C94    |           | 1 KIT, WATER PUMP ASSY  |           | 841.00                                |
| VS68PTC-4-2   |           | 1 FITTING               |           | 4.89                                  |
| 3015598C91    |           | 1 HOSE ASSY COOLANT     |           | 50.08                                 |
|               |           | OUTLET                  |           |                                       |
| BDT23845      |           | 1 TERM- BO              |           | 0.98                                  |
| G20-T1        | CS1       | FLUSH FUEL SYSTEM -     | 5.00      | 890.00                                |
|               |           | HEAVY CONTAMINATION     |           |                                       |
| Tech(s): 6024 |           |                         |           |                                       |
| G20-T1        | CS1       | REPLACE THERMOSTAT      | 1.00      | 178.00                                |
| Tech(s): 6024 |           |                         |           |                                       |
| 421-3173      |           | 2 THERMOSTAT            |           | 466.98                                |
| 393-9711      |           | 1 O ING                 |           | 9.03                                  |
| SUBL          | CS1       | TEST HEAD               |           | 325.00                                |
| Pts:          | 48,556.26 | Lbr:                    | 22,628.30 | Other: 745.00 Total Line A: 71,929.56 |

Story: 198513 FAILED EGR COOLER / CRACKED 7738 - 4/20/23 REMOVED

AND REPLACED 4 BATTERIES. NO POWER TO IGNITION OR CAB

7733-5/1/23 REMOVED AND REPLACED BOTH THERMOSTATS AND O

RING. NEEDS TEST DRIVE. \*\*\*\*\* AFTER TEST DRIVE - ENGINE IS

STILL USING COOLANT - OVER HEAT ALSO \*\*\*\*\* 8/21/23 6161

ENGINE HAS COOLANT TRANSFER FROM THE INTAKE SYSTEM, TO THE

PISTONS AND THROUGH THE EXHAUST SYSTEM. NEED TO PULL THE

CYLINDER HEAD AND INSPECT FOR COOLANT DAMAGE TO THE PISTON

LINERS. GOT THE OKAY TO PULL THE HEAD. DRAINED COOLANT,

REMOVED CROSS OVER WIRNG, LINES, TUBES, HOSES, EGR CROSS

TUBE AND BRACKETS, EGR VALVE AND CONNECTIONS, VALVE COVER,

ROCKERS, ENGINE BRAKES, INJECTOR, EGR COOLER AND BRACKETS -

LINES - CONTROL VALVE, ECM, WIRING, BRACKETS, FUEL LINES,

QUILL TUBES, UNHOOKED ALL ELECTRICAL, INTER-STAGE COOLANT

AND AIR SIDE, TURBO AND AIR TUBES, FRONT FAN DRIVE,

ALTERNATOR AND MOUNTING BRACKETS, INTAKE CROSS OVER, FRONT

GEAR COVER, CAM GEAR AND SEAL PLATE, OIL LINES FROM HEAD,

REMOVED HEAD. \*\*\*\*\*FOUND ALL LINERS RUSTY AND WATER

DAMAGED. \*\*\*\*\* 8/29/23 6161 STRIPPED HEAD AND PUT ON

PALLET FOR PRESSURE TESTING. FOUND HEAD IS CRACKED \*\*\*\*\*

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NEED TO QUOTE AN ENGINE OVER HAUL - CYLINDER PACKS, CYL.  
HEAD, BEARINGS. 12/22/23 7722 - BOXED UP PARTS AND SET ON  
PALLET IN FRONT OF TRUCK. 12/26/23 8066 COVERED ALL EXPOSED  
ENTRIES FOR ENGINE CONTAINMENTS. ORGANIZED NEW ENGINE PARTS.  
12/27/23 7722 - PREPARED DECK FOR STORAGE WITH RUST  
INHIBITOR SPRAY. COVERED ENGINE COMPARTMENT WITH PLASTIC.  
12/29/23 7722 - MOVED TRUCK TO GRAVEL LOT. 5/29/24 6024  
CUSTOMER OKAY ENGINE OVER HAUL - GOT TRUCK TOWED BACK INTO  
THE SHOP - CYLINDER HEAD GROUP HAS SHIPPED AND RECEIVED.  
CLEANED THE TOP OF BLOCK DECK. DRAINED THE OIL, PULLED THE  
BRACKETS / OIL COOLER LINES, WIRING BRACKETS AND HOLDERS,  
PULLED THE OIL PAN, OIL PUMP AND PICK UP TUBES, ( INSPECTED  
THE OIL PUMP, GOOD - NO WEAR ). PULLED THE BLOCK PLATE,  
PISTON COOLING JETS. MEASURED THE PISTON PRO-TRUSION (   
CHECKING FOR BENT ROD - COOLANT HYDRO LOCK FROM EGR COOLER  
FAILURE ). ZERO DIAL INDICATOR ON LINER - TO TOP ON PISTON /  
.001" DIFFERENCE ON #6 - STILL IN SPEC OF .016"MAX. PULLED  
ROD CAPS, REMOVED THE PISTON PACKS. 5/30/24 6024 CLEANED  
THE BLOCK DECK, COUNTER BORES, HEAD BOLT HOLES. USED SOLVENT  
AND CLEANED THE INTERNAL BLOCK. STARTED CLEANING AND  
UN-BOXING PARTS, THAT WERE STORED - WHILE WAITING ON  
CYLINDER HEAD. 5/31/24 6024 CLEANING BOXED PARTS FOR RE-USE.  
6/3/24 6024 REMOVED AND INSTALLED NEW MAIN BEARINGS WITH NEW  
THRUST BEARINGS, TORQUE ALL TO SPEC - 220 FT LBS THEN TURN  
90 DEGREES. CHECKED CRANK SHAFT END PLAY - GOOD. 6/4/24  
6024 PULLED THE PISTON KITS FROM BOXES - CLEANED THE  
ANTI-RUST AGENT FROM LINERS. REMOVED THE RODS FROM OLD  
PISTON ASSEMBLIES. CLEANED RODS. INSTALLED THE NEW RINGS ON  
THE NEW PISTONS. INSTALLED THE NEW WRIST PINS INTO THE OLD  
RODS - THEN ONTO THE NEW PISTONS. USED THE PISTON RING  
COMPRESSOR TO INSTALL THE ASSEMBLIES INTO THE NEW LINERS.  
PUT ON THE O-RING SEALS ONTO LINERS. INSTALLED THE PISTON  
PACKS INTO BLOCK. PUT ON SHIM GASKET AND NEW SPACER PLATE.  
HOOKED UP THE TOOLING FOR LINER PRO-TRUSION. MEASURED EACH  
LINER. .003" AVERAGE PROTRUSION. READY FOR INSTALL WHEN  
NEW ROD BEARINGS GET HERE.....>>>>>>>>>>>  
INSTALLED THE PISTON PACKS. USED NEW ROD BEARINGS AND NEW  
ROD BOLTS. TORQUED ROD CAPS TO SPEC. CHECKE FOR ROD SHAKE -  
GOOD. CRANK END PLAY - GOOD. 6/10/24 6024 BUILT THE  
CYLINDER HEAD AND INSTALLED - TORQUED TO SPEC WITH NEW HEAD  
BOLTS AND GASKETS. SET THE CRANK UP FOR TOP DEAD CENTER #1.  
INSTALLED CAM GEAR - TORQUED TO SEC. HAD .015" GEAR LASH -  
.013" MAX LASH. PULLED IDLER GEAR AND RE-SET THE LASH TO  
.007" USED LOCK TIGHT AND SECURED THE HARDWARE. PUT ON IDLER

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GEAR. RE-CHECKED THE LASH - GOOD AT .007" INSTALLED GEAR COVER, THERMOSTAT HOUSING. 6/11/24 6024 INSTALLED THE ROCKER ARMS, ADJUSTED THE INLET AND EXHAUST VALVES PLUS THE EXHAUST BRAKE ROCKER. TORQUED JAM NUTS TO SPEC. CLEANED AND RE-SEALED THE INJECTORS - INSTALLED WITH NEW QUILL TUBES. TORQUED IN SEQUENCE THE TUBES AND INJECTORS. WROTE DOWN THE 1 THROUGH 6 INJECTOR QUALITY CODES. PUT IN ALL THE ENGINE BRAKE STUDS TO CYLINDER HEAD. INSTALLED THE CAT ENGINE BRAKE. TORQUED TO SPEC. ADJUSTED THE LASH SETTING FOR BRAKE - TORQUED THE JAM NUTS. PUT ON THE VALVE COVER BASE, THE VALVE COVER, EGR HOLDING BRACKETS. 6/13/24 6024 INSTALLED THE REMAN EGR COOLER - MOUNTS, LINES, BRACKETS, HEATER LINES, EGR VALVE, TURBO'S - LINES, BRACKETS, SHIELDS, DOSING HOUSING, INTER-STAGE PIPES. 6/17/24 6024 INSTALLED THE NEW FUEL HIGH PRESSURE LINES, FUEL RAIL, TORQUE TURNED THE LINES, MOUNTED THE INTAKE SIDE, NEW FUEL SUPPLY LINES, TORQUE TURNED. INSTALLED WIRE HARNESS, BRACKETS, 6/20/24 PUT ON THE BLOCK PLATE, OIL PUMP TUBES OIL PAN HOSE AND WIRE BRACKETS. FRONT DRIVE BELTS, PULLEYS, MOUNTED ALTERNATOR AND MOUNTING BRACKET, RADIATOR HOSES - BRACKETS. 6/21/24 6024 PUT ON THE EGR COOLANT LINES, HEATER LINES, FILLED COOLANT WITH 13 GALLONS ELC. FLUSHED THE FUEL LINES, TANK AND DRAIN FOR COOLANT IN THE FUEL. REPLACED FUEL FILTERS, PUT IN 30 GALS OF FUEL, TRIED TO PRIME - HAND PRIME PUMP WILL NOT PRIME THE LINES OR FILTERS. HOOKED UP THE FUEL CART - RAN FOR 10 MINS. GOT THE SYSTEM TO PRIME AND FILL. REPLACED OIL FILTER. FILLED WITH 40 QTS OF NEW ENGINE OIL. 6/24/24 6024 CHARGED BATTIERS. ENTERED INJECTOR CODES, STARTED TRUCK. INSPECTED FOR LEAKS - FOUND OK. INSTALLED INLET AIR BOX BRACKETS COWLING WIPER ASSY. REMOVED THE AFTER-TREATMENT SYSTEM DOC, DPF DOC AND RE-CLOCKED AND RESEALED. INSTALLED AND HOOKED UP SENSORS. 06/25/24 6024 RAN ENGINE CHECKED FOR LEAKS. NONE WERE FOUND. TRIED TO MOVE TRUCK OUT OF THE SHOP, NOW*****NO START. STARTER WAS ONLY CLICKING. VERIFIED GOOD WIRING AND VOLTAGE TO STARTER SYSTEM. HAS 11.8 VOLTS. ATTEMPTED REMOTE STARTING WITH NO SUCCESS. P & A FOR A NEW STARTER ***** TURNED IN THE CORES FOR CYLINDER HEAD AND EGR COOLER ASSEMBLY. 7/18/24 6024 GOT THE OKAY TO REPLACE THE STARTER - ISOLATED THE BATTS. REMOVED THE WIRING CRADLE TO STARTER WIRES, BRACKETS, TRANS LINES AND BRACKETS, STARTER WIRING, ADDITIONAL BRACKETS FOR ALTERNATOR WIRING, REMOVED THE STARTER. INSTALLED NEW STARTER, HOOKED UP THE WIRING, INSTALLED THE BRACKETS, WIRING CRADLE, ADDITIONAL BRACKETS - ZIP TIED AND SECURED

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THE WIRING INTO PLACE. HOOKED UP THE TRANS COOLER OIL LINES  
AND BRACKETS. PUT ON THE BATTERY CONNECTIONS. STARTED  
ENGINE - NOW START SYSTEM IS WORKING FINE. \*\*\*\*\* READY  
FOR STEAM CLEAN ENGINE AND RUN CALIBRATIONS \*\*\*\*\*  
7/19/24 6024 PULLED INTO STEAM BAY - CLEANED THE ENGINE AREA  
- PULLED BACK AROUND TO APRON. RAN ENGINE UP TO TEMP -  
STARTED A REGEN. COOLANT STARTED TO PURGE FROM THE RESERVOIR  
CAP - THEN THE TEMP ROSE TO 219 DEGREES, FAN ON. STARTING TO  
OVER HEAT. SHUT DOWN TRUCK. LET COOL - DRAINED THE COOLANT  
- VACC'D AND PURGED THE AIR FROM SYSTEM - RE-FILLED. RAN  
ENGINE - SAME RESULTS - SLOWLY OVER HEATING. FAN ON AT 215  
DEGREES, BUT RADIATOR SIDE IS COLD. NOT CIRCULATING - \*\*\*\*\*  
NEED TO DIAG FOR OVER HEATING. 7/22/24 6024 REMOVED THE  
UPPER RADIATOR HOSE SUPPORT AND BRACKET, DRAINED THE  
COOLANT, PULLED THE SHROUD SUPPORT BRACKETS, UPPER RADIATOR  
HOSE, THERMOSTAT HOUSING. PUT THE THERMOSTATS IN HEATED  
WATER - 200 DEGREE - BOTH ARE OPEN AT 198 DEGREES.  
THERMOSTATS ARE GOOD. NEED TO INSPECT THE WATER PUMP  
ASSEMBLY. REMOVED THE ENGINE FAN, OUTER FAN HUB, BELTS AND  
PULLEYS, PULLED THE WATER PUMP OFF. IMPELLER IS BROKEN INTO  
3 PIECES. WATER PUMP IS FAILED BADLY. INSPECTED THE FRONT  
HOUSING, LOOKS GOOD, NO DAMAGE. CLEANED THE GASKET SURFACE.  
REMOVED THE PULLEY FROM THE OLD WATER PUMP. INSTALLED ON NEW  
WATER PUMP. SET NEW WATER PUMP IN PLACE, WITH NEW GASKET.  
TORQUE TO SPEC. 6024 INSTALLED THE FAN HUB, FAN, BELTS AND  
PULLEYS. VACUUMED THE COOLING SYSTEM. HELD PRESSURE. FILLED  
THE COOLANT BACK INTO TRUCK. STARTED TRUCK, RAN ENGINE UP TO  
OPERATING TEMP. COOLANT AT 194 DEGREES, THERMOSTATS STARTED  
TO OPEN, TEMP DROPPED BACK TO 187 DEGREES. TEMP RAISED BACK  
TO 194 DEGREES AND HELD. COOLING SYSTEM NOW OPERATING  
NORMALLY. STARTED A REGEN TO VERIFY SYSTEM OPERATION. AFTER  
10 MINUTES OF RUN TIME - THE AIR COMPRESSOR COOLANT HOSE (   
AT THE CYLINDER HEAD CONNECTOR ) STARTED MISTING COOLANT  
FROM A PIN HOLE IN THE HOSE. SHUT DOWN REGEN, TURNED OFF THE  
ENGINE. APPLIED PRESSURE TO COOLING SYSTEM - VERIFIED PIN  
HOLE IN NAIR COMP COOLANT HOSE. \*\*\*\* NEW HOSE ON ORDER \*\*\*\*  
7/29/24 6024 PULLED TRUCK INTO SHOP - DRAINED THE COOLANT.  
REMOVED THE CROSS OVER TUBE FOR EGR, CROSS OVER TUBE FOR  
CLEAN AIR TO AIR COMP. REMOVED THE HOSE COOLANT HOSE FROM  
AIR COMP - PLUS HOLD DOWN BRACKETS, THEN REMOVED FROM  
CYLINDER HEAD CONNECTOR. INSTALLED THE NEW HOSE, NEW CLAMPS,  
PUT ON THE HOLD DOWN CLAMPS. SECURED THE NEW AIR COMP  
COOLANT HOSE. PUT ON THE CLEAN AIR HOSE AND THE EGR CROSS  
OVER TUBE. VACUUM AND RE-FILLED THE COOLANT. PRESSURE CHECK

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FOR LEAKS, NONE FOUND. CLEANED OFF THE ENGINE . RAN ENGINE
UP TO OPERATING TEMP, NO LEAKS FOUND. STARTED REGEN - WENT
THROUGH FINE. BACK DOWN TO 0% SOOT LOAD. PERFORMED THE
ENGINE TIMING RE-LEARN CAL. *****NEEDS TEST DRIVE
AND ENGINE BREAK-IN ***** HAS NO FUEL FOR DRIVE****
07/30/24 ---7432 *****20 GALLONS OF DIESEL PUMPED IN
@0930 07/30/2024 PACIFIC PRIDE PUMP NO.4 NO RECEIPT
AVAILABLE. ***** TEST DROVE FOR 50 MILES CITY STREETS AND
FREEWAY .PERFORMED AS EXPECTED. GAUGES ARE ALL WITHIN SPEC.
NO ACTIVE CODE PRE AND POST DRIVE TEST. PARKED IN THE GRAVEL
LOT
~~~~~

B\*\* PM B W/DOT INSPECTION

| G20-T1        | CS1 | MISC |                          | 3.60 | 252.00 |
|---------------|-----|------|--------------------------|------|--------|
| Tech(s): 7738 |     |      |                          |      |        |
| 393-9711      |     |      |                          |      |        |
| 2611236C1     |     |      |                          |      |        |
|               |     |      | 1 O ING                  |      | 9.03   |
|               |     |      | 1 FILTER,ELEMENT         |      | 82.24  |
|               |     |      | EXTENDED LIFE 3          |      |        |
|               |     |      | 1 FILTER AS-LU           |      | 44.26  |
|               |     |      | 1 FILTER AS FU           |      | 27.77  |
|               |     |      | 1 FREIGHT                |      | 65.00  |
|               |     |      | 1 FILTER FUEL            |      | 109.04 |
|               |     |      | 1 FILTER,KIT, OIL FILTER |      | 80.04  |
|               |     |      | 2 CLEANER                |      | 8.08   |
|               |     |      | 1 FUEL FILTER H2O        |      | 122.59 |
|               |     |      | SEPATATOR, SPI           |      |        |
|               |     |      | 2 FLEETRITE RELC 5050    |      | 19.90  |
|               |     |      | GAL                      |      |        |
|               |     |      | 13 FLEETRITE RELC 5050   |      | 129.35 |
|               |     |      | GAL                      |      |        |

Pts: 697.30 Lbr: 252.00 Other: 0.00 Total Line B: 949.30

Story: 198513 7738 - DRAINED OLD OIL, REFILLED TO SPEC. REMOVED  
AND REPLACED OIL FILTER, FILLED OUT DOT STICKER, NEED TO  
DIAG ELECTRIC HORN INOP, NO BACK UP SOUND, EGR COOLER HOSE  
BLOATED (NEEDS REPLACED),  
~~~~~

C** TOW IN FOR FAILED COOLANT HOSE

G20-T1	CS1	MISC		2.50	445.00
Tech(s): 5872, 6751, 6440, 7706, 6024					
485794C2					
			1 HOSE RAD INLET 2 1/2"		45.52
			I.D.		

Pts: 45.52 Lbr: 445.00 Other: 0.00 Total Line C: 490.52

Story: 198513
~~~~~



# Repair Order Detail - Internal Copy

RO Number: 312145

RO Status: READY TO POST

Customer: FEED COMMODITIES LLC

[Click to View Cust Copy](#)

Phone(s): Contact: (253)572-5078

Main: (253)572-5078

Cell:

Vehicle: 1HTJKTLT9DJ329689

2013 150

Mileage: 198,513

Payment type: CHG

Waiter: No

Service advisor: 5884

Promised time: 05:00 PM

Estimate: 78,000.00

Tax number: T4004770

Promised date: 10/05/2024

Customer Comments: No

~~~~~  
D** CUSTOMER REQUESTED A CLUTCH ADJUSTMENT

G20-T1	CS1	CLUTCH ADJUSTMENT	1.00	178.00
--------	-----	-------------------	------	--------

Tech(s): 9999

Pts:	0.00	Lbr:	178.00	Other:	0.00	Total Line D:	178.00
------	------	------	--------	--------	------	---------------	--------

Story: 198513 5/2/2023 - 6751/7722 - ATTEMPTED TO START TRUCK BUT WILL NOT TURN OVER, BATTERIES ARE AT 13 VOLTS, ATTEMPTED TO BARR OVER ENGINE BUT IT IS STUCK SOLID, FILLED COOLING SYSTEM WITH WATER AND PRESSURE TESTED, FOUND COOLANT DRIPPING OUT OF DPF WEEP HOLE AND YOU CAN HEAR WATER RUSHING THROUGH AFTER TREATMENT, TOWED INSIDE, REMOVED EGR COOLER OUTLET ELBOW AND PRESSURIZED AND FOUND COOLANT IS SPRAYING OUT, EGR COOLER IS FAILED, ENGINE IS HYDRO-LOCKED, AFTER TREATMENT IS FULL OF COOLANT, TURNED IN P/A 7706-6/20/23 REMOVED EGR COOLER AND, TURBO AND EXHAUST MANIFOLD, UNLOCKED ENGINE AND CLEANED EXHAUST PORTS AND INTAKE FROM ALL COOLANT, AWAITING PARTS TO RESEAL EXHAUST MANIFOLD. 7706-6/23/23 INSTALLED EXHAUST MANIFOLD AND REPLACED DOC AND DPF, TURNED IN PARTS FOR CORE. 7706-7/11/23 INSTALLED EGR COOLER AND REINSTALLED ALL COOLING AND EXHAUST PLUMBING, PERFORMED FILTER AND OIL CHANGE AND TOPPED OFF COOLANT, NOTICED COOLANT IN FUEL FILTER, USED FUEL PRIMER TO PRIME SYSTEM AND CHECK IF EXCESS COOLANT CAME FROM FUEL TANK. TRUCK IS CRANKING SLOW, BATTERIES ARE DEAD, REPLACED BATTERIES AND STILL HAVE SLOW CRANK ISSUE, FOUND DIRTY CONTACTS ON SIGNAL WIRE TO STARTER SOLENOID, CLEANED AND TRUCK NOW STARTS. FOUND LEFT OVER COOLANT IS COMING FROM EXHAUST AND TRUCK WILL NEED TO BE RAN UNTIL ALL COOLANT IS OUT OF DOWN PIPE TO DOC TO PREVENT DAMAGE. FOUND COOLANT IS LEAKING SEVERELY - POTENTIALLY FROM WHERE EGR COOLER HOUSING PIECES MEET. NEED TO REPLACE THE NEW EGR COOLER FOR LEAKING AT CENTER SECTION.

~~~~~  
E\*\* CHECK AND ADVISE FOR COOLANT LEAK AT EGR COOLER

|        |       |                     |      |      |
|--------|-------|---------------------|------|------|
| G12-T1 | WS1NA | WARRANTY EGR COOLER | 0.00 | 0.00 |
|--------|-------|---------------------|------|------|

Tech(s): 7706, 6024

|            |   |                               |          |
|------------|---|-------------------------------|----------|
| 5013380R91 | 1 | EGR,REMAN 15L I770 EGR COOLER | 3,183.49 |
|------------|---|-------------------------------|----------|

|      |          |      |      |        |      |               |          |
|------|----------|------|------|--------|------|---------------|----------|
| Pts: | 3,183.49 | Lbr: | 0.00 | Other: | 0.00 | Total Line E: | 3,183.49 |
|------|----------|------|------|--------|------|---------------|----------|

Story: 198513 7706-7/11/23 AFTER EGR COOLER REPLACEMENT ( ORIGINAL EGR COOLER WAS FAILED - PASSING COOLANT INTO THE INTAKE SYSTEM ). RAN TRUCK. STEAM CLEANED TRUCK OFF AND PRESSURED TESTED COOLING SYSTEM. FOUND NEW INSTALLED EGR COOLER IS LEAKING FROM WHERE BOTH SIDES OF EGR CORE HOUSING MEETS ( CENTER SECTION ) LEAKS AT SEAL, ATTEMPTED TO TIGHTEN

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Vehicle: 1HTJKTLT9DJ329689

2013 150

Mileage: 198,513

Payment type: CHG

Waiter: No

Service advisor: 5884

Promised time: 05:00 PM

Estimate: 78,000.00

Tag number: T4004770

Promised date: 10/05/2024

Customer Comments: No

~~~~~  
BOLTS AT CENTER SECTION, COOLER IS STILL LEAKING. 6024
DRAINED THE COOLANT, REMOVED THE INLET AIR BOX AND TUBES,
PASS SIDE FENDER AND INNER SKIRT, CAC TUBE AND TURBO INTAKE
TUBE, INTER-STAGE COOLER AND LINES, WIPER ASSEMBLY AND
COWLING, HEATER TUBE PIPING, FRONT EGR CROSS OVER PIPING,
REAR EGR PIPING, COOLANT RETURN TUBES - COOLANT OUT TUBES,
COOLANT ADAPTOR ASSEMBLY AND TUBES, EGR VALVE AND TUBES,
REMOVED THE EGR COOLER ASSEMBLY. INSTALLED THE NEW FITTINGS
ONTO NEW REMAN UNIT. PUT ONTO THE EGR COOLER HOLD DOWN
BRACKETS. MOUNTED IN PLACE. HOOKED UP THE REAR EGR VALVE AND
CROSS OVER TUBES - WITH NEW GASKETS, FRONT CROSS OVER TUBES
WITH NEW GASKETS. INSTALLED THE ADAPTOR ASSEMBLY AND TUBES -
WITH NEW O-RINGS, COOLANT IN AND COOLANT OUT TUBES - WITH
NEW O-RINGS, HEATER TUBES AND HOSES - WITH NEW O-RINGS, EGR
VALVE COOLANT LINES, PUT ON THE INTER-STAGE COOLER AND
LINES, TURBO INLET TUBE, WIRING HARNESS, CAC TUBE, COWLING
AND WIPER ASSEMBLY, INLET AIR BOX AND TUBES. VACUUM AND
RE-FILLED THE COOLANT. PRESSURE CHECK FOR LEAKS, NONE FOUND.
PUT ON THE INNER FENDER SKIRT, PASS SIDE FENDER. TEST AFTER
EGR COOLER REPLACEMENT - ALL OPERATING NORMALLY. TURNED IN
THE WARRANTY EGR COOLER - WROTE DOWN THE SERIAL # FOR BOTH
COOLERS.
~~~~~

F\*\* REPAIR INOPERATIVE LIGHTS

|        |     |                                                   |      |        |
|--------|-----|---------------------------------------------------|------|--------|
| G20-T1 | CS1 | HEADLIGHT BULB,<br>SOCKET AND LIGHTING<br>REPAIRS | 1.20 | 213.60 |
|--------|-----|---------------------------------------------------|------|--------|

Tech(s): 7746

|    |   |         |       |
|----|---|---------|-------|
| H9 | 1 | H9 Bulb | 25.12 |
|----|---|---------|-------|

|      |       |      |        |        |      |               |        |
|------|-------|------|--------|--------|------|---------------|--------|
| Pts: | 25.12 | Lbr: | 213.60 | Other: | 0.00 | Total Line F: | 238.72 |
|------|-------|------|--------|--------|------|---------------|--------|

Story: 198513 BLOWN BULB 07/29/24-7746 SEEN HEAD LIGHT WAS NOT ON  
FOR PASSENGER SIDE, PLACED HIGH BEAMS ON TO VERIFY BOTH  
SIDES WORKED, REMOVED BUILD UP ON CASING OF HEADLIGHTS TO  
GET TO BULBS, MADE SURE NO DAMAGE WAS IN THE CONNECTOR OR  
TERMINALS, REMOVED BULB AND SEEN FILAMENT WAS DAMAGED,  
REMOVED AND INSTALLED NEW BULB AND VERIFIED IT TURNED ON AND  
WORKED.  
~~~~~

G** CHECK ENGINE LIGHT IS ON

G20-T1	CS1	CHECK ENGINE LIGHT DIAG AFTER ENGINE REPAIRS	3.60	640.80
--------	-----	--	------	--------

Tech(s): 7746

Pts:	0.00	Lbr:	640.80	Other:	0.00	Total Line G:	640.80
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2013 150

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Waiter: No

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Promised time: 05:00 PM

Estimate: 78,000.00

Tag number: T4004770

Promised date: 10/05/2024

Customer Comments: No

~~~~~  
Story: 198513 07/29/24-7746 PULLED HERO AND SEE NO ACTIVE FAULT  
CODES FOR ISSUE, USED NEDS TO SEE COMPLAINT AND GOT(SPN 94  
FMI 2 "APP1 and APP2 signal conflict"), WENT THROUGH  
SCHEMATICS TO FIND PROPER PIN OUTS, A WAS APP1 AND F WAS  
APP2 WHICH ENDED UP IN ECM CONNECTOR #2 IN SPOTS 54 ADN 55,  
MEASURE RESISTANCE FOR BOTH A-54 AND F-55 WHICH GOT FOR APP1  
0.3 OHMS AND APP2 7.1 OHMS, SO I CONDUCTED A OVER LAY REPAIR  
TO RESOLVE ISSUE, REMOVED LUME TAPE AND PLASTIC COVERS OVER  
CONNECTOR, DID THE REPAIR FOR F-55(APP2) THEN ONCE ALL  
WIRING WAS IN AND RECONNECTED DID MY MEASUREMENTS AND GOT  
0.4 OHMS, THEN I PLACED ALL REMOVED PARTS BACK ON AND RE  
WRAPPED WHAT WAS REMOVED VERIFIED NO ACTIVE FAULT CODES OR  
WARNINGS ON DASH DISPLAY, RECOMMENDING TEST DRIVE FOR REPAIR  
TO COMFIER ISSUE HAS BEEN RESOLVED SINCE FAULT CODE WAS  
INTERMITTENT.  
~~~~~

Customer Pay	
Labor	24,357.70
Parts	49,324.20
Lube	0.00
Sublet	325.00
Miscellaneous/Shop Charge	670.00
Deductible	0.00
Total Charges	74,676.90
Less Insurance/Adjustment	0.00
Sales Tax	0.00
Total	74,676.90