



FREIGHTLINER NORTHWEST REDDING
(530) 241-4412

SERVICE REPAIR INVOICE

Bill-To Customer 97577

Owner 600040

BETTENDORF ENTERPRISES

BETTENDORF ENTERPRISES, INC.

4545 W END RD
ARCATA, CA 95521

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ARCATA, CA 95521

Contact Name: **BETTENDORF ENTERPRISES**
Contact Number: (707) 822-8271
Pinnacle Number:
Claim Number:

VIN: **3AKJGBDV3GSGP7375**
Year: 2016
Make: FREIGHTLINER
Model: CASCADIA 113

Invoice
SR631000198:01

Invoice Date
12/01/2023

P.O. Number
247

Fleet ID: **53**
Unit ID: 195459

Date In	Date In Service	Mileage	Date Out	Bill Type	Terms	Writer	Reviewer
10/27/2023	06/30/2015	56,724	10/27/2023	SR	10TH	2540	2559

Sold Operations

Job #: 1	Job Code: EA	Job Description: EXPRESS ASSESSMENT
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Condition: EXPRESS ASSESSMENT ** CHECK AND ADVISE. CEL

Cause:

Correction: brought truck into shop. printed F/C. started T/S SPN 3058/FMI 9. checked all pressures, all looked good. checked for other F/C that could be related. no other F/C present. checked exhaust leak. found intake hose with signs of leakage. put in P&A. installed new hose with clamps. continued T/S. pressure test CAC. no leaks. found a little bit of oil on the intake side of turbo. checked turbo fins. all seem ok and moves freely. put all parts back on truck, pulled off delta p sensor. inspected it and blew through ports. all were cleared. put truck on regen to see if anything clears or goes inactive. all stayed the same. brought truck back into shop. let truck cool down. T/S is now saying to clean all EGR system out. removed hot pipe and intake pipe to EGR. inspected both sides of EGR. both side were good with no build up. reinstalled inlet side and hot pipe/venturi pipe back on. tightened down all bolts. updated CSC. waiting on response back.

Product / Description	Qty Ordered	Qty B/O	Qty Shipped	Unit Price	Extended Amount
LABOR TO PERFORM REPAIRS					875.00
631D/DDE A4729970353 LINE/TUBE/HOSE - EGR COOLER	1.00	0.00	1.00	18.83	18.83
631D/DDE A0069972690 CLAMP - EGR PIPE	2.00	0.00	2.00	3.41	6.82
631V/BRZ B9224 0411FRU "CLAMP-98IN LB-CT,4IN. CONVOLU	1.00	0.00	1.00	6.55	6.55
631D/DDE A4721420880 SEAL	1.00	0.00	1.00	3.87	3.87
HOOKUP COMPUTER HOOKUP CHARGE	1.00	0.00	1.00	59.95	59.95

Total Labor: **875.00**

Total Other: **96.02**

Job Total: **971.02**

Job #: 2	Job Code: J10	Job Description: GENERAL SERVICE REPAIR
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Condition: GENERAL SERVICE REPAIR ** CHECK AND ADVISE. AIR LEAK/LOSS.

FIRST THING IN MORNING BUILDS TO 120 THEN IT WILL STEADILY DECLINE (USING BRAKES AND JUST DRIVING).

Cause:

Correction: checked out air system. truck builds to 120psi then pops off. replaced air governor with new. now builds to 135psi then pops off.

Product / Description	Qty Ordered	Qty B/O	Qty Shipped	Unit Price	Extended Amount
LABOR TO PERFORM REPAIRS					87.50
631V/WAB 432 470 920 2 AIR-GOVERNOR	1.00	0.00	1.00	55.64	55.64

Sold Operations (Cont.)

Total Labor: **87.50** Total Other: **55.64** Job Total: **143.14**

Job #: 3	Job Code: J26	Job Description: TRANSMISSION REPAIR
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Condition: TRANSMISSION REPAIR ** TRANSMISSION AIR LOW WARNING LIGHT. WILL SHIFT ERRATICALLY

Cause:

Correction: R/T truck, sent in log file for truck shifting into neutral when shifting down or up at times. case# 13662299. checked ticket. they said F/C that are present could cause shifting issue. will have to diag F/C first. cleared codes and took truck on another R/T, made another log file and sent to CSC with no active codes. waiting to hear back. CSC responded back and wants me to check on delta p pressure being high in multiple stretches during R/T. did another R/T, then a transmission and clutch learn procedure. sent log file to CSC. waiting on response. got ahold of CSC, waiting for them to respond. CSC wants me to check trans fluid for metal and pull screen. drained transmission and checked screen. no magnificent metal shavings present. put filter and drain plug back on and torqued to specs. filled transmission back up with 22 pints of transmission fluid. will need to pull transmission out of truck to inspect clutch. removed drive line. took off all top bolts holding down fuel lines and DEF coolant lines. removed trans cooler lines from transmission. I removed the exhaust and then removed the tcm plug took awhile the clip on it is broken and then I removed the transmission and took off amt shift controller and the actuator and looked at gears and they look worn out and i can see blue on the top of them and earlier when they were running trans learn procedure they said it would kick into gear and try and launch forward im recommending a new transmission. I looked at cpca and its burnt and the clutch is burnt as well and worn out. So I turned in estaime for new clutch and cpca and transmission. Also resurface flywheel. removed clutch and flywheel from truck. pushed truck out.

Product / Description	Qty Ordered	Qty B/O	Qty Shipped	Unit Price	Extended Amount
LABOR TO PERFORM REPAIRS					1,837.50
631X/FLYWHEEL-DDE RESURFACED	1.00	0.00	1.00	296.80	296.80
631V/MBL 122065 "TRANS FLUID, M-DELVAC 1 MBT 7	1.00	0.00	1.00	417.63	417.63

Total Labor: **1,837.50** Total Other: **714.43** Job Total: **2,551.93**

Job #: 4	Job Code: CINSPECT	Job Description: COURTESY INSPECTION
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Condition: COURTESY INSPECTION **

Cause: Complimentary visual inspection

Correction:

Sold Operations (Cont.)

Job #: 6

Job Code: J26

Job Description: TRANSMISSION REPAIR

Condition: TRANSMISSION REPAIR

Cause:

Correction: Went out to truck and aired it up then pushed it in shop and got parts then lifted truck. Then I removed rear main seal and installed new one their was a small gash on rear main housing i took a picture of it but I dont think it will cause leak. Then I installed pilot bearing and installed flywheel and clutch with new bolts and torqued to spec. I went and got new transmission and then lifted old trans in air and drained the fluid out of it then I put new trans on jack then installed new cpca and installed amt shift controller I thought the new trans came with a new amt shift controller but I guess not. Then I lifted truck and put new trans under truck then got trans pushed in but when I went to thread the bolts on two of them on the sides were free spinning so I took out bolts and they looked fine so I removed trans from under truck and then checked the rear structure bolt holes and all the threads on each hole are very messed up thats why bolts wont thread on so I turned in parts req for helacoils hopefully those work I need someone to check tomorrow and see if we can retap holes. Then I turned in cpca and trans for core and cleaned mess. tried to heli coil transmission bolt holes. was not enough to hold transmission. needs new rear structure. put in P&A. I put the clutch back in and torqued it to spec then I installed exhasut from one box to turbo it got removed on the other condition. Then I lifted truck and put trans under truck then installed the new trans and tightened all the bolts. Then put trans cooler lines back on and then tightened up all bracketson top of trans then I put clamps on for trans cooler lines then I repinned the tcm x1 connector with a new one then installed it. Then I lowered truck and got the starter and installed it on truck and then put cables on and tightened it all down. Then I put the driveline in and then put exhaust on then I filled trans with fluid and then got the cab leveling arm back on and the shocks. Then I ran truck and aired it up then ran a clutch and trans learn and it passed then turned off key for 10 minutes then started truck and drove it in reverse and forward and it worked good. Then I cleaned up mess. and put everything away. I need jason to put clamps back on for starter not sure where they go and ran out of time and not sure how the trans cooler line clamp goes on either on bottom of trans. The bumper also still needs to be put back on. installed battery cable clamps, topped off engine oil with 1 gal of oil to the full mark, checked transmission fluid level and trans is full, pressure washed engine compartment and transmission area, took truck on a test drive, truck shifts in and out of neutral and is not upshifting or downshifting into proper gears, brought back to shop, checked for leaks and no leaks are present, got assigned to another job, parked truck out in the lot. I test drove truck and found the same thing that its shifting to neutral between gears the only the left on trans to do is amt shift controller so I turned in estimate for it and then I looked over trans for leaks and found trans fluid leaking out of the the back of trans its a little bit but if someone could look at that and see what to do as far as part warranty.

Product / Description	Qty Ordered	Qty B/O	Qty Shipped	Unit Price	Extended Amount
LABOR TO PERFORM REPAIRS					1,050.00
631F/23-13149-029 PLUG 21CAV MCP2 8S AI BK SEAL	1.00	0.00	1.00	20.49	20.49
631V/AI 9 1394050 1 CVR-PLUG-21CAV MCP2.	1.00	0.00	1.00	6.12	6.12
631D/DDE A0119812025 PILOT BEARING	1.00	0.00	1.00	20.42	20.42
631F/DGT DT12-OB1CS-01R DT12 O-DRV B - W/ CLR, SGL CLT	1.00	0.00	1.00	13,897.49	13,897.49
631F/A 960 261 06 80 SEAL, SHIFT ACTUATOR	1.00	0.00	1.00	37.59	37.59
631V/PHM 8 43147 "TIE STRAP-14.5IN,BLACK,NYLON,	8.00	0.00	8.00	0.15	1.20
631F/23-13323-003 STUD-THREAD,DOUBLE END,.312,.4	1.00	0.00	1.00	17.89	17.89
631F/23-09114-001 WASHER-FLAT,HARDENED,7/16 IN	12.00	0.00	12.00	0.41	4.92
631I/1076716214 USS HEX BT 7/16X21/4 GRD8	11.00	0.00	11.00	1.40	15.40
631F/DGT DT12-OB1CS-01R-CORE DT12 O-DRV B - W/ CLR, SGL CLT	-1.00	0.00	-1.00	6,250.00	-6,250.00
631D/DDE RA0032502115-CORE LU RELEASE BEARING PNEU	-1.00	0.00	-1.00	500.00	-500.00
631D/DDE A0159974946 OIL SEAL, CRANKSHAFT, REAR	1.00	0.00	1.00	44.88	44.88
631F/23-12891-175 SCREW-SOCKETHEAD 12PT,1/2-20,1	4.00	0.00	4.00	2.23	8.92
631D/DDE RA0032502115 LU RELEASE BEARING PNEU	1.00	0.00	1.00	1,406.46	1,406.46
631D/DDE A0029905500 BOLT - FLYWHEEL TO CRANKSHAFT	12.00	0.00	12.00	4.65	55.80
631F/A02-14135-000 ZB SINGLE DISC DRY CLUTCH	1.00	0.00	1.00	1,627.49	1,627.49
631F/23-13329-095 BOLT-HEX FLG,PC 10.9,M10X95	12.00	0.00	12.00	2.41	28.92
631D/DDE RA0032502115-CORE LU RELEASE BEARING PNEU	1.00	0.00	1.00	500.00	500.00
631F/DGT DT12-OB1CS-01R-CORE DT12 O-DRV B - W/ CLR, SGL CLT	1.00	0.00	1.00	6,250.00	6,250.00
new trans sn #716310R1000529					

Total Labor: 1,050.00

Total Other: 17,193.99

Job Total: 18,243.99

Sold Operations (Cont.)

Job #: 8	Job Code: J10	Job Description: GENERAL SERVICE REPAIR
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Condition: REPLACE ENGINE BELL HOUSING DUE TO TOO MANY BOLT HOLES BEING STRIPPED

***** SAVE AND REUSE OIL *****

Cause:

Correction: drained oil, removed clutch and flywheel. disconnected battery's and removed starter cables, removed starter, removed oil pan, removed motor mounts and set motor on jack stands, began removing rear structure upper brackets and lower brackets. removed rear structure, transferred starter studs to new rear structure, had to order new cover plate and plastic plug, cleaned block surface and replaced rear structure gasket, installed new rear structure and temporarily installed bolts, waiting on 2 new bolts that are the correct length for rear structure. replaced 2 upper m14 bolts and torqued all rear structure bolts, replaced upper cover plate, reinstalled motor mount plates and motor mount bolts. replaced rear main seal, installed speed sensor and lower cover plate, reinstalled transmission line brackets, cleaned oil pan and block surface, replaced suction manifold and o-rings, replaced oil pan gasket and reinstalled oil pan, reinstalled dip stick tube, filled engine with original oil.

Product / Description	Qty Ordered	Qty B/O	Qty Shipped	Unit Price	Extended Amount
LABOR TO PERFORM REPAIRS					2,800.00
631D/DDE A4710151103 T/GEAR CASE	1.00	0.00	1.00	435.24	435.24
631D/DDE A4710150480 MOUNTING GASKET, FLYWHEEL HOUS	1.00	0.00	1.00	39.55	39.55
631D/DDE A0159974946 OIL SEAL, CRANKSHAFT, REAR	1.00	0.00	1.00	44.88	44.88
631D/DDE A4720150980 O-RING, FLYWHEEL HOUSING COVER	1.00	0.00	1.00	3.65	3.65
631D/DDE A4720150280 SEAL - COVER, FLYWHEEL HOUSING	1.00	0.00	1.00	2.91	2.91
631D/DDE A4710140822 SEAL, OIL PAN MOUNTING	1.00	0.00	1.00	60.42	60.42
631D/DDE A4721806851 OIL SUCTION MANIFOLD	1.00	0.00	1.00	215.81	215.81
631D/DDE A4721870880 O-RING, OIL SUCTION LINE	2.00	0.00	2.00	8.32	16.64
631D/DDE A4721870980 O-RING, OIL PRESSURE LINE	2.00	0.00	2.00	7.80	15.60
631D/DDE A4721870980 O-RING, OIL PRESSURE LINE	1.00	0.00	1.00	7.80	7.80
631D/DDE A0000150930 COVER PLATE, FLYWHEEL HOUSING	1.00	0.00	1.00	13.37	13.37
631D/DDE A0002361880 GASKET, IDLER 3 COVER PLATE	1.00	0.00	1.00	8.33	8.33
631D/DDE N000000005513 SCREW, M14 X 160	2.00	0.00	2.00	9.05	18.10
631D/DDE A0019983990 PLUG, TORQUE CONVERTER ACCESS	1.00	0.00	1.00	1.35	1.35
631D/DDE N910105008012 SCREW, M8 X 30	2.00	0.00	2.00	0.62	1.24
631I/189082194 PERMATEX H599 ULTRA GREY SILIC	1.00	0.00	1.00	9.06	9.06
FRT FREIGHT FOR TORQUE CONVERTER PLUG	1.00	0.00	1.00	17.82	17.82
FRT FREIGHT FOR FLYWHEEL HOUSING SEAL	1.00	0.00	1.00	17.82	17.82

Total Labor: 2,800.00 Total Other: 929.59 Job Total: 3,729.59

Job #: 9	Job Code: MISC	Job Description: MISC REPAIRS
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Condition: Replace the front main and cover

Cause:

Correction: removed CAC pipe and belts, removed tensioner. removed balancer and front cover, replaced front cover and gasket, replaced front main seal and reinstalled balancer, reinstalled tensioner, belts and engine fan, reinstalled CAC pipe (done)

Product / Description	Qty Ordered	Qty B/O	Qty Shipped	Unit Price	Extended Amount
LABOR TO PERFORM REPAIRS					700.00
631X/15W40 DELO 400 SDE SAE GALLON	1.00	0.00	1.00	27.45	27.45
631D/DDE A0169970646 OIL SEAL, CRANKSHAFT, FRONT	1.00	0.00	1.00	31.64	31.64
631D/DDE A4720110380 MOUNTING GASKET, FRONT ENGINE	1.00	0.00	1.00	13.08	13.08
631D/DDE A4700110807 FRONT ENGINE COVER	1.00	0.00	1.00	48.04	48.04

Total Labor: 700.00 Total Other: 120.21 Job Total: 820.21

Sold Operations (Cont.)

Job #: 11	Job Code: J10	Job Description: GENERAL SERVICE REPAIR
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Condition: REPLACE SHIFT CONTROLLER PARTS ONLY!!!!!!!

Cause:

Correction:

Product / Description	Qty Ordered	Qty B/O	Qty Shipped	Unit Price	Extended Amount
631F/A 960 261 06 80 SEAL, SHIFT ACTUATOR	1.00	0.00	1.00	37.59	37.59
631D/DDE RA9482600563 SHIFT POSITIONER	1.00	0.00	1.00	1,449.63	1,449.63
631D/DDE RA9482600563-CORE SHIFT POSITIONER	-1.00	0.00	-1.00	375.00	-375.00
631D/DDE RA9482600563-CORE SHIFT POSITIONER	1.00	0.00	1.00	375.00	375.00

Total Labor: 0.00

Total Other: 1,487.22

Job Total: 1,487.22

Job #: 12	Job Code: POLICY	Job Description: POLICY
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Condition: LABOR AND FREIGHT CHARGE FOR TRANS CONTROLLER INSTALL

Job #: 13	Job Code: POLICY	Job Description: POLICY
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Condition: CHECK/REPAIR OIL LEAK ON REMAN DT12 TRANSMISSION

E-mail invoicing now available!

AccountsReceivable@freightlinernw.com to enroll

EXCLUSION OF WARRANTIES:

Any warranties on the parts and accessories sold hereby are made by the manufacturer. The undersigned purchaser understands and agrees that TRAILERCRAFT makes no warranties of any kind, express or implied, and disclaims all warranties including warranties of merchantability or fitness for a particular purpose, with regard to the parts and/or accessories purchased; and that in no event shall TRAILERCRAFT be liable for incidental or consequential damages or commercial losses arising out of such purchase. By purchasing goods and/or services from Seller, purchaser agrees to be bound by the full Terms and Conditions set forth on Seller's website, www.trailercraft.com/terms. Any limitation contained herein does not apply where prohibited by law.

TERMS: NET 10TH. Your account is due on the 10th day of the month following the date of purchase. A late charge will be added to any past due account. All cores must be returned within 60 days with invoice copy for full credit return. Preserve this invoice; no goods accepted for credit without this order and our consent. A 15% handling charge will be made on all returned goods unless returned for reason of defect or error on Seller's part.

Misc. Charges** 95.59

MerchandiseAmt.

Parts: 20,501.51

Labor: 7,350.00

Sublet: 0.00

Prepay: 0.00

Misc Supplies* 475.00

Taxes: 1,527.73

Total: 29,949.83

Please Remit Payment to:

**277 STEWART ROAD SW
PACIFIC, WA 98047**

Customer Signature: _____