

Stock 89731

236018



INVOICE

FREIGHTLINER WESTERN STAR OF LANCASTER

1675 Rohrerstown Rd.

Lancaster, PA 17601

Phone: (717) 581-3480

Fax: (717) 581-3482

PAGE 1

SERVICE ADVISOR: 2200 K HARBAUGH VWFD

SERVICE ADVISOR: 2200 R HARDAUGH VWB

COLOR	YEAR	MAKE/MODEL	VIN	LICENSE	MILEAGE IN/ OUT	TAG	
MAROON	18	FREIGHTLINER CASCADI	3AKJHHDR3JSJT0369	B181	542807/542807	T1100	
DEL DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE
22MAR18	DD16JAN18		21:00 19APR24	WNDL0181		FCB	08OCT24
R.O. OPENED		READY		OPTIONS: DLR:DNV ENG:DDE/472910S0537884			
09:05 19APR24		11:03 08OCT24		TRN:FUL/P1125379 AXL:MBA/ART400-4			

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
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A PERFORM VEH COURTESY INSPECTION INSP PASS FAIL, PERFORM VEH

DAMAGE REPORT CHECK MARK WHEN COMPLETED.

SAFE PERFORM VEH COURTESY INSPECTION INSP

PASS FAIL, PERFORM VEH DAMAGE REPORT

CHECK MARK WHEN COMPLETED.

2187 CPDH

0.00

0.00

PARTS: 0.00 LABOR: 0.00 OTHER: 0.00 TOTAL LINE A: 0.00

542807 2187- PERFORMED COURTESY INSPECTION ON UNIT.

B UNIT WAS MAKING KNOCKING NOISE AND DOES NOT RUN- CHECK AND ADVISE

CAUSE: DDE/A4720310601

03 REP TO COVER DIAG AND BEARING ANALYSIS

2187WDETP

(N/C)

2066WDETP

(N/C)

1 DDE/A4720310601 CRANKSHAFT

(N/C)

7 DDE/A4720300740 MAIN BEARING KIT

(N/C)

6 DDE/A4720300960 CONN ROD BRG

(N/C)

1 DDE/EA4720300620 CONNECTING ROD

(N/C)

CORE CHARGE W

(N/C)

1 DDE/A4720300445 KIT, CRANKSHAFT THRUST

WASHERS

(N/C)

1 DDE/A4720370320 PISTON PIN

(N/C)

CRITICAL FEES INCLUDED

1 DDE/A4720110380 MOUNTING GASKET, FRONT

ENGINE COVER

(N/C)

1 DDE/A0169970646 OIL SEAL, CRANKSHAFT, FRONT

(N/C)

1 DDE/A4700111007 CRANKCASE COVER FRT

(N/C)

1 DDE/A4721881480 GASKET - OIL MANIFOLD

(N/C)

1 DDE/A4720140322 SEAL

(N/C)

1 PERM82180 PERMATEX BLK SILICONE 3.35 OZ

(N/C)

1 DDE/A4720150480 MOUNTING GASKET, FLYWHEEL

HOUSING

(N/C)

1 DDE/A0159974946 OIL SEAL, CRANKSHAFT, REAR

(N/C)

6 DDE/A4721800043 O/SPRAY NOZL

(N/C)

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		PARTS AMOUNT	
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		SUBLET AMOUNT	
		MISC. CHARGES	
		TOTAL CHARGES	
		LESS INSURANCE	
		SALES TAX	
		PLEASE PAY THIS AMOUNT	
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1	DDE/A4720162220	CYL HD	GSKT				(N/C)
1	DDE/A4720160880	MOUNTING SEAL,	CAMSHAFT				(N/C)
		HOUSING					(N/C)
1	DDE/A0000701432	FUEL LINE	KT				(N/C)
6	DDE/A4720780480	SEAL, FUEL INJECTOR LINE,					(N/C)
		PASSTHRU					(N/C)
2	DDE/N000000001069	SEALING RING,	M14				(N/C)
1	DDE/A4710960380	METAL SEAL					(N/C)
4	DDE/A0219901101	MOUNTING BOLT,	TURBOCHARGER				(N/C)
1	DDE/A4720980880	MOUNTING SEAL, COLD BOOST					(N/C)
		PIPE					(N/C)
1	DDE/A4720980680	GASKET - TUBE, EGR					(N/C)
2	DDE/A0019950502	CLAMP - EGR PIPE					(N/C)
1	DDE/A4731800909	TS OIL FILTER					(N/C)
6	DDE/A4720300624	RING SET					(N/C)
6	DDE/A4720110259	RING, CYLINDER LINER CARBON					(N/C)
		SCRAPER					(N/C)
1	DDE/A4720300445	KIT, CRANKSHAFT THRUST					(N/C)
		WASHERS					(N/C)
1	DDE/A4720300624	RING SET					(N/C)
1	DDE/A0000900069	VALVE, QUANTITY CONTROL					(N/C)
-1	DDE/EA4720300620	CORE RETURN					(N/C)
03	REMOVE AND INSTALL CRANK						
	2149 CPDH						
	11286 CPDH						
8	80716212	SCREW CAP GR 8			1.23	0.54	4.32
8	23-09318-012	7/16 LOC CARBON STEEL			0.29	0.14	1.12
1	FREIGHT FREIGHT IN				35.00	35.00	35.00
1	FUL/4305294	GASKET			17.21	8.40	8.40
1	FUL/4305310	GASKET			14.47	7.06	7.06
4	23-12891-175	SCREW-SOCKETHEAD 12PT, 1/2-20, 1					
		3/4IN			2.75	1.83	7.32
2	23-14281-040	BOLT-HEX, PC10.9, PO, M12X1.5X40			1.60	1.07	2.14
					15486.32	15486.32	

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SUBLET AMOUNT	
MISC. CHARGES	
TOTAL CHARGES	
LESS INSURANCE	
SALES TAX	
PLEASE PAY THIS AMOUNT	

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4	23-09114-003	WASHER-FLAT, STEEL, HARDENED, 1/2					
	IN				0.77	0.52	2.08
2	23-13112-112	NUT-HEX, LOCKING, M12-1.5, ZINC					
	ALUM, CL10				0.62	0.41	0.82
4	23-13013-730	SCRW, MCH, PH TX MP 8.8,			1.65	1.09	4.36
4	23-10900-031	WASHER-FLAT, STAINLESS					
	STL, 5/16, .685 OD				0.51	0.34	1.36
1	7652651	LUBRIPLATE #105			28.04	20.33	20.33
4	05084	BRAKE CLEAN CRC			22.74	5.50	22.00
12	OWI/23519396	DDC EXT LF 50/50 COOLANT			20.02	9.35	112.20
2	23-14393-006	UNION-PTC, .50 NT TO .50 NT			6.09	4.06	8.12
1	23-14393-007	UNION-5/8 PTC X 5/8 PTC			33.59	22.44	22.44
1	PH/8-C6X-S	FITTING			17.85	3.38	3.38
2	23-12691-000	CLAMP-SPR STL, 5/8 HOS			2.26	1.51	3.02
1	02-12176-000	BEARING-PILOT, 72 X 30 X 19MM			61.99	35.74	35.74
1	PC2404-08-08	FITTING			17.28	4.18	4.18
99	MISCELLANEOUS						
	999WDADJ						(N/C)
99	MISCELLANEOUS						
	999WDAJ2						(N/C)
LUBE	10W30						
	CPDH					343.50	343.50
LUBE	50W TRANSMISSION FLUID						
	CPDH					259.20	259.20
LUBE	ADMIN FEE						
	WDETP						(N/C)
PARTS:	305.39	LABOR:	15486.32	OTHER:	602.70	TOTAL LINE B:	16394.41

542807

COMPLAINT: 2187- CUSTOMER STATES ENGINE IS MAKING A KNOCKING NOISE & UNIT DOES NOT RUN. BUMPED STARTER TO CRANK ENGINE OVER & VERIFIED THAT ENGINE TURNS OVER BUT DOES MAKE A LOW END KNOCKING NOISE. TOWED UNIT INTO SHOP. INSPECTED ENGINE BAY & FOUND ENGINE TO BE LEAKING OIL WHERE THE HEAD BOLTS TO THE ENGINE BLOCK NEAR THE PASSENGER REAR OF ENGINE. CHECKED ENGINE OIL LEVEL & FOR CONTAMINATION & FOUND NO ISSUES,

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CHECKED COOLANT LEVEL & FOUND THAT IS WAS AT THE MINIMUM SPEC ON COOLANT RESERVOIR. PUT BARRING TOOL ON FLYWHEEL & VERIFIED THAT ENGINE DOES TURN OVER FULLY BUT DOES GET STIFF AT A CERTAIN POINT. LOOKED UP DD15 GHG17 TROUBLESHOOTING & REFERRED TO CHAPTER 24.5 & IT SAYS TO COMPLETE A ROD & MAIN BEARING ANALYSIS. REMOVED DEER GUARD & FRONT BUMPER, DRAINED ENGINE OIL FROM UNIT, LIFTED FRONT OF TRUCK UP & PLACED ON JACK STANDS FOR ACCESS TO REMOVE OIL PAN, PULLED DIP STICK & REMOVED DIP STICK TUBE FROM OIL PAN, REMOVED ENGINE OIL PAN & FOUND METAL DEBRIS IN OIL PAN, INSPECTED OIL PICKUP TUBE & FOUND METAL DEBRIS STUCK TO THAT AS WELL. REMOVED OIL PUMP/PICKUP TUBE ASSEMBLY. BARRED ENGINE OVER & REMOVED ROD CAPS #1 & #6, FOUND ROD #6 BEARINGS TO BE CHEWED UP & DAMAGE TO THE CRANK. BARRED ENGINE OVER & REMOVED #2 & #5 ROD CAPS & INSPECTED BEARINGS & FOUND NO ISSUE. BARRED ENGINE OVER & REMOVED ROD CAPS #3 & #4 & INSPECTED ROD CAPS & FOUND NO ISSUES. REMOVED ALL 7 MAIN CAPS INDIVIDUALLY & INSPECTED MAIN BEARINGS, FOUND NO ISSUES WITH MAIN BEARINGS. INSPECTED BOTTOM OF PISTONS & CYLINDER WALLS & FOUND NO ISSUES. FOLLOWED TROUBLESHOOTING FOR OIL LEAKS CHAPTER 16.1 & FOLLOWED DIAG, GOT TO STEP 11 TO VISUALLY INSPECT THE CYLINDER HEAD GASKET EXTERNALLY. DIAG SAYS TO REMOVE CYLINDER HEAD IF LEAK IS PRESENT EXTERNALLY. PERFORMED FUEL SYSTEM PROCEDURE, DISCONNECTED BATTERIES, DRAINED COOLANT SYSTEM, DISCONNECTED THE COOLANT LEVEL SENSOR, REMOVED EGR COOLER VENT LINE FROM EGR COOLER, REMOVED COOLANT RESERVOIR FROM UNIT, REMOVED ENGINE AIR FILTER ASSEMBLY & TURBO INLET, REMOVED AIR COMPRESSOR RESONATOR BOX & FOUND DRY COOLANT TO BE PRESENT IN RESONATOR BOX, REMOVED THE CAMSHAFT HOUSING ASSEMBLY, REMOVED COOLANT LINES FROM WATER MANIFOLD TO FUEL DOSER INJECTION HOUSING, DISCONNECTED CAB HEATER LINES FROM WATER MANIFOLD, DISCONNECTED DEF LINES FROM WATER MANIFOLD, REMOVED EGR ACTAUTOR COOLANT LINE FROM WATER MANIFOLD, REMOVED EGR PULL ROD FROM ACTUATOR, REMOVED TURBO HEAT SHIELDS & UNBOLTED TURBO MOUNTING BOLTS FROM EXHAUST MANIFOLD, REMOVED COOLANT CROSSOVER TUBE, REMOVED RUBBER CAC DUCT & COLD BOOST PIPE, REMOVED NEEDLE AMPLIFIER & PLV RETURN LINES. REMOVED THE SMALL HEAD BOLTS FROM REAR OF HEAD, REMOVED REMAINING 38 LARGE HEAD BOLTS. INSTALLED LIFTING DEVICE W470589086200 ON CYLINDER HEAD. PLACED CRANE OVER TOP OF UNIT & HOOKED UP TO LIFTING

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DEVICE, LIFTED CYLINDER HEAD OFF OF ENGINE, INSPECTED BOTTOM OF CYLINDER HEAD & FOUND NO ISSUES, REMOVED HEAD GASKET & INSPECTED HEAD GASKET, FOUND O-RING MATERIAL ON HEAD GASKET TO BE TORN ON THE REAR OF THE HEAD GASKET. INSPECTED TOP OF ENGINE BLOCK & FOUND NO ISSUES, PUT IN FOR PARTS TO REPAIR ENGINE.

2149 9/23 TOWED UNIT BACK INTO THE SHOP REMOVED PUSH GUARD AND REMOVED FRONT BUMPER, REMOVED INTAKE TUBE TO TURBO AND REMOVED BELTS AND TENSIONER FROM UNIT, REMOVED FAN FROM THE FAN HUB, REMOVED THE FRONT CRANK PULLEY AND REMOVED THE FRONT COVER FROM UNIT, REMOVED ALL PISTONS FROM ENGINE BLOCK AND SET ASIDE, NEXT REMOVED SHIFT TOWER FROM TOP OF TRANSMISSION, REMOVED ALL MOUNTING BRACKETS ON TOP OF THE TRANSMISSION, NEXT REMOVED THE DRIVE SHAFT BOLTS AND LET DRIVE SHAFT HANG, REMOVED DRAINED THE TRANSMISSION FLUID DUE TO UNIT HAVING AND BOTTOM SIDE PTO, REMOVED ALL BUT TWO PTO MOUNTING NUTS AND LET PTO DRAIN INTO A PAIN, NEXT REMOVED CARRIER BEARING BOLTS AND LOWERED DRIVE SHAFT DOWN, INSTALLED TRANSMISSION JACK AND REMOVED ALL BELL HOUSING BOLTS, REMOVED TRANSMISSION FROM UNIT, NEXT REMOVED CLUTCH AND FLY FROM UNIT, JACKED ENGINE UP AND SENT ON JACK STANDS AND REMOVED FLY WHEEL HOUSING, INSTALLED STRAPS AROUND CRANK SHAFT AND HOOKED TO OVER HEAD CRANE, REMOVED ALL MAIN CAP BOLTS AND REMOVED REMAINING MAIN CAPS FROM UNIT, LOWERED CRANK SHAFT OUT OF UNIT ONCE OUT INSPECTED BLOCK FOR ANY DAMAGE AND DID NOT SEE ANY, CLEANED ALL BEARING SURFACES AND INSTALLED NEW UPPER MAIN BEARING, PUT NEW CRANK SHAFT UNDER UNIT CAREFULLY AND REINSTALLED STRAPS AND LIFTED NEW CRANK INTO PLACE, ONCE NEW CRANK WAS IN PLACE, REMOVED LOWER MAIN BEARING FROM CAPS AND INSTALLED NEW BEARING, INSTALLED MAIN CAPS 1 -5 TORQUING TO SPEC, REMOVED OLD FLY WHEEL HOUSING GASKET AND INSTALLED NEW ONE REINSTALLED FLYWHEEL HOUSING AND REAR ENGINE MOUNTS, LIFTED ENGINE TO GET OFF JACK STANDS AND SET BACK ON TO MOTOR MOUNTS, INSTALLED MAIN CAPS 6 AND 7 TORQUING TO SPEC, REMOVED CONNECTING ROD FROM CYLINDER 6 PISTON AND INSTALLED NEW ON DUE TO CONNECTING ROD BEING DAMAGED, INSTALLED NEW BEARING ON TO CONNECTING ROD AND, REMOVED PISTON RINGS AND INSTALLED NEW ONES, INSTALLED NEW PISTON RINGS ON ALL PISTONS, AND INSTALLED PISTONS TORQUING TO SPEC, REINSTALLED FLYWHEEL AND INSTALLED CLUTCH ON TO TRANSMISSION, LIFTED

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INVOICE

FREIGHTLINER WESTERN STAR OF LANCASTER

1675 Rohrerstown Rd.
Lancaster, PA 17601
Phone: (717) 581-3480
Fax: (717) 581-3482

PAGE 1

SERVICE ADVISOR: 2150 R CONN VWFD

COLOR	YEAR	MAKE/MODEL	VIN	LICENSE	MILEAGE IN/ OUT	TAG
MAROON	18	FREIGHTLINER CASCADI	3AKJHHDR3JSJT0369	B181	542745/542745	TWHS
DEL DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT
22MAR18	DD16JAN18		21:00 15FEB24	DB		CHG
R.O. OPENED	READY	OPTIONS: DLR:DNV ENG:DDE/472910S0537884				
10:31 02FEB24	16:01 23FEB24	TRN:FUL/P1125379 AXL:MBA/ART400-4				

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
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A UNIT HAS POPPING NOISE COMING FROM TOP OF ENGINE

CAUSE: DDE/EA4730105020

03 DETROIT ENGINE

2141 WDET

2155 WDET

1 DDE/EA4720503802 CAM FRAME KT

CORE CHARGE W

1 DDE/EA4720501601 CAM OUTLET

CORE CHARGE W

1 DDE/A0000701432 FUEL LINE KT

1 COST COST DIFF

1 FREIGHT FREIGHT IN

1 DDE/A4720162120 C/HD GSKT KT

6 DDE/A4720980080 MOUNTING SEAL, INTAKE

MANIFOLD

2 05084 BRAKE CLEAN CRC

1 16PB BLASTER

30 GT/4230SB1 HEATER HOSE, 1 INCH ID

1 DDE/A0019955565 HOSE CLAMP

1 DDE/A0259974348 SEAL RING

1 A04-32185-472 TUBE ASSY-COOLANT, SPLY, DD15

1 A04-32186-461 TUBE ASSY-COOLANT, RTN, DD15

1 DDE/A4722030980 GASKET - WATER MANIFOLD

1 DDE/A4722030880 GASKET - WATER MANIFOLD

2 DDE/N000000001071 SEALING RING - GENERAL USE

1 05084 BRAKE CLEAN CRC

1 DDE/A4710960380 METAL SEAL

2 60-N8 8MM NUT

1 DDE/EA4730105020 CYL HEAD WITH VALVES DD16

15

CORE CHARGE W

-1 DDE/EA4730105020 CORE RETURN

1 DDE/A6019970430 VALVE, CYLINDER BLOCK

COOLANT DRAIN

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

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(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

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TOTALS

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PARTS AMOUNT

GAS, OIL, LUBE

SUBLET AMOUNT

MISC. CHARGES

TOTAL CHARGES

LESS INSURANCE

SALES TAX

PLEASE PAY THIS AMOUNT

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8	OWI/23519396	DDC	EXT	LF 50/50 COOLANT			(N/C)
4	23-13450-040	SCR	HX	W/CONED WSHR M10X1.5X40			(N/C)
-1	DDE/EA4720501601	CORE	RETURN				(N/C)
-1	DDE/EA4720503802	CORE	RETURN				(N/C)
99	MISCELLANEOUS						
	999WDADJ						(N/C)
99	MISCELLANEOUS						
	999WDAJ2						(N/C)
PARTS:	0.00	LABOR:	0.00	OTHER:	0.00	TOTAL LINE A:	0.00

542745

2141 - PERFORMED CYLINDER LEAK TEST ON CYLINDER 3,4,AND 5. CYLINDER 3 BLEW BACK PRESSURE. CYLINDER 4 THERE IS LEAKAGE IN OR BY ONE OF THE VALVES. CYLINDER 5 HAD BLOW BACK WITH NO LEAKAGE. THE UNIT NEEDS A NEW HEAD.

2155- DISCONNECTED BATTERY REMOVED BUMPER REMOVED SPLASH GUARDS DRAINED COOLANT SET ENGINE HARNESS ASIDE REMOVED BOTH CAC PIPES REMOVED THE BRACKET FOR THE COOLANT HOSES THE RUN ACROSS THE FRONT OF THE HEAD REMOVED THE TURBO HEAT SHIELDS AND HOT PIPE (2) TO REMOVE THE TURBO BOLTS HAD TO HEAT UP AND USE PENETRATING OIL ON TURBO BOLTS FOR THEM TO BREAK LOOSE AND REMOVED THE EGR VALVE LINKAGE (1.8) STARTED REMOVING THE COOLANT LINES REMOVED THE SURGE TANK ALSO REMOVED THE COOLANT BLOCK THAT GOES TO THE COOLANT MANIFOLD AND REMOVED THE COOLANT RETURN MANIFOLD REMOVED THE NEEDLE AMPLIFIER AND RETURN LINES FROM THE FUEL FILTER MANIFOLD REMOVED THE BOTTOM BOLTS FOR THE INTAKE (1.8) REMOVED ALL HEAD BOLTS REMOVED THE RAIN TRAY AND WIPER ASSEMBLY (1.5) SET CRANE UP AND REMOVED THE HEAD SET ON TABLE STARTED TAKING PARTS OFF TO SWITCH TO THE NEW HEAD (1.5) PICKED HEAD UP AND REMOVED EVERYTHING OFF OF IT AND SET ASIDE (1) GOT NEW HEAD AND STARTED INSTALLING PARTS WITH NEW GASKETS ON TO THE HEAD AND TORQUED ALL BOLTS (1.5) CLEANED ENGINE SURFACE INSTALLED HEAD GASKET LOWERED HEAD ON TO ENGINE (1) MEASURED AND OILED UP THE HEAD BOLTS INSTALLED BOLTS AND TORQUED TO SPEC (1.5) INSTALLED RAINTRAY AND WIPER ASSEMBLY (1) INSTALLED NEW GASKET FOR

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TURBO AND INSTALLED BOLTS CONNECTED ALL COOLANT LINES AND INSTALLED SURGE TANK SWAPPED OUT ALL O-RINGS FOR INJECTORS (1.5) INSTALLED INJECTORS GOT NEW ROCKER HOUSING INSTALLED CAMS AND CAPS TORQUED TO SPEC INSTALLED ROCKER SHAFTS AND JACK BRAKE SPRINGS (2) INSTALLED ON HEAD TORQUED BOLTS INSTALLED FUEL LINES WITH NEW SEALS TORQUED INJECTORS (1) CHECKED AND ADJUSTED ALL VALVES INSTALLED INJECTOR HARNESS, VALVE COVER AIR BOX MOUNTS AIRBOX AND CAC PIPES CONNECTED ALL ELECTRICAL CONNECTORS (3) HAD TO USE RATCHED STRAP TO PULL RADIATOR SUPPORT UP TO BOLT IT TO THE HEAD AND INSTALLED THE COOLANT CROSSOVER HOSE AND INSTALLED COOLANT BLOCK ON SIDE OF COOLANT MANIFOLD ALSO INSTALLED HEATER RETURN MANIFOLD HAD TO ZIPTIE UNITS AFTER MARKET COOLANT HOSES AWAY FROM ENGINE AND ANY MOVING PART AND USING HOSE TO MAKE A LOOP FOR WHERE THOSE LINES WHERE AFTER THEY WHERE BROKEN INSTALLED BUMPER AND DEER GUARD AND SPLASH GUARDS (3.5

)

REMOVED BOTH INNER FENDERS

REMOVED BUMPER

REMOVED THE RAIN TRAY AND WIPER ASSEMBLY

B** OIL LEAKING NEAR REAR OF MOTOR.

CAUSE: DDE/A4720150480

03 DETROIT ENGINE

2155 WDET

2197 WDET

3 05084 BRAKE CLEAN CRC

2 05084 BRAKE CLEAN CRC

4 80716200 SCREW CAP GR 8

1 DDE/A4720150480 MOUNTING GASKET, FLYWHEEL

HOUSING

1 DDE/A0159974946 OIL SEAL, CRANKSHAFT, REAR

1 DDE/A0159974946 OIL SEAL, CRANKSHAFT, REAR

1 CHL/35-P-15-2 PTO - GASKET

20 PHM/8-43147 TIE

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

(N/C)

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				STRAP-14.5IN, BLACK, NYLON, 50#, 100/BAG			(N/C)
				1 DDE/A4720140322 SEAL			(N/C)
				1 DDE/A4720140583 MOUNTING BOLT ASSEMBLY, OIL PAN			(N/C)
				1 FUL/4305294 GASKET			(N/C)
				1 PERM82180 PERMATEX BLK SILICONE 3.35 OZ			(N/C)
				1 05084 BRAKE CLEAN CRC			(N/C)
99				MISCELLANEOUS			
				999WDADJ			(N/C)
99				MISCELLANEOUS			
				999WDAJ2			(N/C)
PARTS:	0.00	LABOR:	0.00	OTHER:	0.00	TOTAL LINE B:	0.00

542745

2155- STEAM CLEANED BACK OF ENGINE FOUND FLY WHEEL HOUSING LEAK
 (.5) DISCONNECTED BATTERIES REMOVED THE BUMPER REMOVED THE DRIVE LINE
 HAD TO HEAT UP DRIVE LINE BOLTS (1.5) REMOVED THE PASSENGER SIDE
 FORWARD SIDE FAIRING REMOVED THE PASSENGER SPLASH GUARD REMOVED THE TOP
 BOLTS FROM THE CAB SHOCKS AND LIFTED CAB TO GET UNDERNEATH (1.3)
 REMOVED THE DOWN PIPE REMOVED THE TRANS COOLER LINES AND DRAINED TRANS
 REMOVED THE PTO PUMP AND SET ASIDE (1.2) REMOVED THE "EQUIFLO BRACKET"
 REMOVED ALL BRACKETS WITH LINES ON THEM REMOVED ALL AIR LINES REMOVED
 THE SHIFTER REMOVED THE SLAVE CYLINDER (1) REMOVED THE EXHAUST FROM THE
 ONE BOX OUTLET SIDE POSITIONED TRANS JACK WITH WOOD STRAPPED TRANS TO
 JACK REMOVED ALL 12 BOLTS HAD TO HEAT TWO UP TRIED PULLING TRANS FROM
 ENGINE BUT WOULD NOT SEPARATE TRANS WAS STUCK TO FLYWHEEL HOUSING (1.4)
 2155- FINISHED REMOVING MOTOR MOUNTS AND SET ENGINE ON JACK STAND
 REMOVED THE CABLES FROM THE STARTER REMOVED THE STARTER NUTS STARTER
 WOULD NOT COME OUT EVEN AFTER USING HEAT (1) PULLED THE FLYWHEEL OUT
 AND HAMMERED STARTER OUT FROM THE BACK REMOVE THE CRANK POSITION SENSOR
 REMOVED ALL BRACKETS ON SIDE OF THE FLYWHEEL HOUSING HAD TO REMOVE THE
 DRIVER SIDE SPLASH GUARD TO GET TO THE AIR COMPRESSOR DISCHARGE LINE TO
 LOOSEN IT UP (1.6) REMOVE THE HC DOSER LINE REMOVED THE DEF COOLER
 LINES THAT WERE DAMAGED TO GET THEM OUT OF THE WAY (.5) REMOVED ALL THE
 BOLTS AND REMOVED THE FLYWHEEL HOUSING CLEANED UP BOTH SURFACES GOT NEW

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GASKET INSTALLED GASKET AND HOUSING (1) TORQUED BOLTS PUT ALL BRACKETS AND LINES ON PUT HC DOSER LINE BACK IN MOVED DISCHARGE LINE BACK IN PLACE AND TIGHTNED IT UP AND PUT SPLASH GUARD BACK ON (2) PUT MOTOR MOUNTS BACK ON AND LINED UP MOUNT BOLTS TIGHTNED THE MONT BOLTS AND REMOVED TYHE JACK STANDS (1) WENT TO INSTALL REAR CRANK SEAL BUT DID NOT GO IN STRAIGHT HAD TO TAKE IT OUT STARTED SETTING UP THE DEF LINES FOR INSTALL BEFORE TRANSMISSION GOES IN (1)

2155- CLEANED UNDERNEATH TRUCK SETUP WHEEL LIFTS INSTALLED FLYWHEEL AND TORQUED BOLTS TO SPEC (1.3) HAD TO PICK TRANSMISSION UP WITH FORK LIFT REMOVED THE PTO FROM THE BOTTOM OF THE TRANS TO SET TRANS ON JACK USING STRAPS TO SECURE TRANS TO JACK (1.2) LIFTED FRONT OF UNIT AND WHEELED TRANS UNDERNEATH LOWERED UNIT AND INSTALLED TRANSMISSION (.7) LINED UP CLUTCH AND TORQUED CLUTCH BOLTS TO SPEC (1) UNCAGED CLUTCH INSTALLED SHIFTER TOWER AND ALL BRACKETS AND LINES ON TOP OF TRANS INSTALLED PTO, SLAVE CYLINDER, PTO PUMP, AND DRIVE SHAFT FILLED FLUIDS INSTALLED SPLASH GUARDS, SIDE STEP PANEL AND EXHAUST (2) WHEN UNIT WAS STARTED THE CLUTCH HAD A VIBRATION HAD TO LINE CLTUCH FORK UP TO GET THE VIBRTION TO STOP (1.8) REMOVED THE SIDE STEP REMOVED THE SPLASH GUARDS LIFTED THE REAR OF THE CAB REMOVED THE DOWN PIPE REMOVED THE EXHAUST FROM THE ONE BOX

2197 2/8/24

WENT UNDER UNIT AND REMOVED OIL PAN, REMOVED DIP STICK TUBE. REMOVED STARTER BOLTS BUT STARTER WONT BUDGE. PUT TWO JACK STANDS UNDER UNIT WITH 2X4S TO SUPPORT ENGINE. TRANS WAS STUCK AND WOULD NOT REMOVE FROM HOUSING. ALL BOLTS WERE REMOVED BY PREVIOUS TECH, ALL HARNESSSES AND LINES WERE REMOVED. NOTHING WAS HOLDING IT UP. TRIED REPOSITIONING JACK AND STILL DIDN'T BUDGE, USED PRY BAR AND IT BROKE FREE. WIGGLED IT BACK AND FORTH TILL SHAFT WAS COMPLETELY OUT AND LOWERED JACK AND REMOVED TRANS AND SAT IT NEXT TO UNIT. CAGED CLUTCH TO COMPRESS SPRINGS INSIDE AND REMOVED CLUTCH FROM FLYWHEEL HOUSING. FLYWHEEL AND MOTOR

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MOUNTS AND STARTER NEED FINISHED BEFORE HOUSING WILL COME OUT.

(AM) 2/23 WARRANTY ENTERED -

WWW.TRANSTECK.COM

NEED TO DISTRIBUTE TECH TIME!!

MON-FRI 7 AM TO 11:30 PM/SAT 7 AM TO 3 PM

DIRECT SERVICE PHONE# 717-581-7971

AFTER HOURS CALL 717-480-8399

IT IS RECOMMENDED TO RE-CHECK TORQUE ON ALL
LUG NUTS AND U-BOLTS WITHIN 100 MILES IF THEY
WERE REMOVED FOR SERVICE

ON BEHALF OF SERVICING DEALER, I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREON IS ACCURATE UNLESS OTHERWISE SHOWN. ANY WARRANTY SERVICES DESCRIBED WERE PERFORMED AT NO CHARGE TO OWNER. THERE WAS NO INDICATION FROM THE APPEARANCE OF THE VEHICLE OR OTHERWISE, THAT ANY PART REPAIRED OR REPLACED UNDER THIS CLAIM HAD BEEN CONNECTED IN ANY WAY WITH ANY ACCIDENT, NEGLIGENCE OR MISUSE. RECORDS SUPPORTING THIS CLAIM ARE AVAILABLE FOR (1) YEAR FROM THE DATE OF PAYMENT NOTIFICATION AT THE SERVICING DEALER FOR INSPECTION BY MANUFACTURER'S REPRESENTATIVE.

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CUSTOMER SIGNATURE

DESCRIPTION

TOTALS

LABOR AMOUNT	0.00
PARTS AMOUNT	0.00
GAS, OIL, LUBE	0.00
SUBLET AMOUNT	0.00
MISC. CHARGES	0.00
TOTAL CHARGES	0.00
LESS INSURANCE	0.00
SALES TAX	0.00
PLEASE PAY THIS AMOUNT	0.00

(SIGNED) DEALER, GENERAL MANAGER OR AUTHORIZED PERSON (DATE)
CREDIT TERMS: NET 30 DAYS FROM INVOICE DATE OR NET 10 DAYS FROM STATEMENT DATE. A FINANCE CHARGE WILL ACCRUE AT 1.5% PER MONTH ON ALL UNPAID ITEMS.

Stock 89731

825476



INVOICE

FREIGHTLINER OF ALTOONA

 424 Kuhn Lane
 Duncansville, PA 16635
 (814) 695-9175
 FAX (814) 695-9475

PAGE 1

SERVICE ADVISOR: 8015 S Shipman DUWD

SERVICE ADVISOR: 0010 S Shipman BOWE

COLOR	YEAR	MAKE/MODEL	VIN	LICENSE	MILEAGE IN/ OUT	TAG	
MAROON	18	FREIGHTLINER CASCADI	3AKJHHDR3JSJT0369	B181	481523/481523	T238	
DEL DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE
22MAR18	DD16JAN18		17:00 02MAY23	WNDL0181		FCB	08MAY23
R.O. OPENED		READY	OPTIONS: DLR:DNV ENG:DDE/472910S0537884				
11:14 25APR23		13:12 08MAY23	TRN:FUL/P1125379 AXL:MBA/ART400-4				

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
------	--------	------	------	-------	------	-----	-------

A CUSTOMER STATES TRANSMISSION FAILED/ FUIILD LEAKING ON GROUND

CAUSE: JIM COVERING 3,000 TOWARD TRANSMISSION

99 DIAGNOSE, REMOVE AND REPLACE TRANSMISSION

8046INTCO

(N/C)

204INTCO

(N/C)

8062INTCO

(N/C)

8077INTCO

(N/C)

10 PHM/8-43087 TIE STRAP-7.5IN BLACK.NYLON.50

. 100/BAG

(N/C)

1 DDE/A0019959702 CLAMP - GENERAL

(N/C)

1 05084 BRAKE CLEAN

(N/C)

1 FRO17210C REMAN FULLER TRANS

(N/C)

1 BHT/91099 CLIP RETAINER

(N/C)

99 REP COVERING 3,000 TOWARD TRANSMISSION

204 WFRP

(N/C)

99 ROAD TEST TO VERIFY REPAIRS

8077INTCO

(N/C)

LUBE TRANS FLUID 9.10 Pints SYN TRANS 50

INTCO

(N/C)

LUBE TRANS FLUID 18.10 Pints SYN TRANS 50

INTCO

(N/C)

SUBL TOW BILL

INTCO

(N/C)

SUBL PTO GASKETS

INTCO

(N/C)

SUBL PTO REPAIRS

INTCO

(N/C)

SUBL OUT SORCED FITTING

INTCO

(N/C)

PARTS: 0.00 LABOR: 0.00 OTHER: 0.00 TOTAL LINE A: 0.00

20

203-4/27- GOT IN SHOP & DRAINED LUBE. ONLY HAD A FEW OUNCES IN IT.

FOUND L9OCKING CLIP MISSING ON LINE AT COOLER & LINE WAS COMPLETELY

OFF. QUOTED PARTS

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DESCRIPTION

TOTALS

LABOR AMOUNT

PARTS AMOUNT

GAS, OIL, LUBE

SUBLET AMOUNT

MISC. CHARGES

TOTAL CHARGES

LESS INSURANCE

SALES TAX

PLEASE PAY THIS AMOUNT

(SIGNED) DEALER, GENERAL MANAGER OR AUTHORIZED PERSON (DATE)

CUSTOMER SIGNATURE

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CUSTOMER COPY

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INVOICE

FREIGHTLINER OF ALTOONA

424 Kuhn Lane
Duncansville, PA 16635
(814) 695-9175
FAX (814) 695-9475

PAGE 2

SERVICE ADVISOR: 8015 S Shipman DUWD

COLOR	YEAR	MAKE/MODEL		VIN	LICENSE	MILEAGE IN/ OUT		TAG
MAROON	18	FREIGHTLINER CASCADI		3AKJHHDR3JSJT0369	B181	481523/481523		T238
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R.O. OPENED		READY		OPTIONS: DLR:DNV ENG:DDE/472910S0537884				
11:14 25APR23		13:12 08MAY23		TRN:FUL/P1125379 AXL:MBA/ART400-4				

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
8046-					GOT REQUESTED PICTURES, DROPPED PTO AND VERIFIED GEAR DAMAGE AND HEAT DAMAGE.		
8062	4.27.23:				TRANS COOLER FITTINGS RECEIVED WERE TOO BIG, LOCATED THE PROPER SIZED CLIP FOR TRANSMISSION FITTING, INSTALLED LINE THAT BLEW OFF.		
TECH#204-	4/28/23-				GOT NEW TRANS OUT OF BOX TRUCK AND IN THE BAY WHERE THE TRUCK IS SITTING. STARTED DROPPING REAR DRIVE SHAFT.		
TECH#204-	5/1/23-				GOT THE HYDRAULIC PUMP SEPARATED FROM THE PTO AND THEN GOT IT OUT FROM UNDER THE TRUCK. CLEANED THE METAL OUT OF IT THEN WASHED IT OUT IN PARTS CLEANER. LOOKED AT THE GEARS AND ALL LOOKED GOOD BUT IT WAS HARD TURNING WHEN LOCKED IN. FELT LIKE THEIR WAS METAL SHAVINGS DOWN IN THE LOWER BEARINGS. GETTING CRESSON RIDGE TO TAKE A LOOK AT IT SINCE THEY HAVE ALL THE STUFF UP THERE TO DO THE REPAIR IF NEEDED SO I LOADED IT IN THE SERVICE VAN. FINISHED DROPPING THE DRIVE SHAFTS AND THE EXHAUST PIPE. GOT EVERYTHING OFF TOP DISCONNECTED AND MOVED OUT OF THE WAY. TRANS COOLER LINES OFF AND MOVED OUT OF THE WAY AND THEN GOT THE CLUTCH RELEASE CYLINDER OFF AND OUT OF THE WAY. REMOVED ALL TRANS MOUNTING BOLTS BUT 2 THEN GOT JACK UNDER TRANS AND STRAPPED TO JACK. GOT TRANS PULLED OUT AND THEN GOT WHEEL LIFTS AND LIFTED TRUCK UP TO GET TRANS OUT FROM UNDER TRUCK. STOPPED HERE.		
TECH#204-	5/2/23-				GOT OLD TRANS STRIPPED OF BELL HOUSING, FITTINGS AND THE YOKE AND ALL 8 PTO MOUNTING STUDS. GOT NEW TRANS OFF SKID AND THEN GOT THE GASKET MATERIAL OFF THE BELL HOUSING AND THEN BELL ON TO NEW TRANS. GOT THE FITTINGS BACK ON NEW TRANS BUT THE TRANS COOLER FITTINGS WAS DIFFERENT FROM THE NEW ONE TO THE OLD ONE. HAD TO GET 2 NEW FITTINGS FOR NEW TRANS COOLER LINES CAUSE THE OLD ONES WAS O-RING STYLE AND NEW TRANS WAS STRAIGHT CUT FITTINGS. GOT YOKE ON WITH NEW NUT AND THEN GOT TRANS BACK ON TRANS JACK AND STRAPPED DOWN TO JACK. LIFTED TRUCK AND GOT TRANS BACK UNDER AND THEN TRANS BACK IN AND ALL BOLTS STARTED AND TIGHTENED UP.		
TECH#204-	5/3/23-				GOT EVERYTHING SECURED BACK ON TOP AND SHIFTER BACK IN. PUT PTO ON WITH NEW GASKET AND CHECKED THE BACKLASH AND IT WAS A LITTLE TIGHT SO I TOOK THAT GASKET OUT AND PUT A THICKER ONE IN AND CHECKED THE LASH AND NOW I HAVE THE LASH I WANT. FOUND OLD GASKET AND		

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DESCRIPTION

TOTALS

LABOR AMOUNT

PARTS AMOUNT

GAS, OIL, LUBE

SUBLET AMOUNT

MISC. CHARGES

TOTAL CHARGES

LESS INSURANCE

SALES TAX

PLEASE PAY
THIS AMOUNT

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CUSTOMER SIGNATURE

CUSTOMER COPY

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INVOICE

FREIGHTLINER OF ALTOONA

424 Kuhn Lane
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(814) 695-9175
FAX (814) 695-9475

PAGE 3

1
BUS. VEH. -- SERVICE ADVISOR: 8015 S Shipman DUWD

COLOR	YEAR	MAKE/MODEL		VIN	LICENSE	MILEAGE IN/ OUT		TAG
MAROON	18	FREIGHTLINER CASCADI		3AKJHHDR3JSJT0369	B181	481523/481523		T238
DEL DATE	PROD. DATE	WARR. EXP.	PROMISED	PO NO.	RATE	PAYMENT	INV. DATE	
22MAR18	DD16JAN18		17:00 02MAY23	WNDL0181		FCB	08MAY23	
R.O. OPENED		READY		OPTIONS: DLR:DNV ENG:DDE/472910S0537884				
11:14 25APR23		13:12 08MAY23		TRN:FUL/P1125379 AXL:MBA/ART400-4				

LINE	OPCODE	TECH	TYPE	HOURS	LIST	NET	TOTAL
------	--------	------	------	-------	------	-----	-------

MEASURED THE THICKNESS AND IT WAS THE SAME THICKNESS AS THE ONE I PUT IN SO I KNOW IT IS CORRECT NOW. PUT THE SHIFT FORK ASSEMBLY BACK ON PTO AND LOCTITED THE BOLTS. PUT THE PUMP ASSEMBLY BACK UP ON AND THEN THE CLUTCH HYDRAULIC CYLINDER. THEN GOT THE DRIVE SHAFTS UP AND THEN THE EXHAUST PIPE. GOT SOME TRANS FLUID IN THE TRANS AND THEN GOT THE JACK STANDS OUT FROM UNDER TRUCK AND THEN TOPPED OFF THE TRANS TILL IT WAS FULL. STARTED UP ENGINE AND LEFT IT RUN AND THEN I CHECKED ALL THE GEARS AND I HAD THEM ALL. NEEDS ROAD TEST TO VERIFY HIGH AND LOW ARE WORKING CORRECTLY. ROAD TESTED VERIFIED FITTING LEAKING AT TRANSMISSION.

8077- REMOVED FITTING GRABBED NEW FITTING PUT ON TIGHTENED FITTING DOWN. AND SPRAYED OFF WHERE LEAK WAS AND TESTED HIGH AND LOW IN LOT. PULLED BACK IN VERIFIED NO MORE LEAKS. PUT OUTSIDE.

B CUSTOMER STATES UNIT HAS COOLANT LEAK

99 REMOVE AND REPLACE RADIATOR

203 CPDH

		1850.00	1850.00
1 TXE/1003849D HOUSED RADIATOR ASSEMBLY	2077.89	1287.85	1287.85
1 BNB BOLTS/NUTS/BRASS	4.90	2.65	2.65
1 OWI/23519396 POWERCOOL 50/50	11.57	8.76	8.76
2 23-12485-175			
CLAMP-HOSE.SCREW/WORMGEAR.CONSTANT.1-3/4	14.59	10.46	20.92
2 BNB BOLTS/NUTS/BRASS	4.90	2.65	5.30
8 PHM/8-43087 TIE STRAP-7.5IN BLACK.NYLON.50 .			
100/BAG	0.18	0.04	0.32
1 05-32313-000 CAP-SURGE TANK.FILL	15.33	9.50	9.50

PARTS: 1335.30 LABOR: 1850.00 OTHER: 0.00 TOTAL LINE B: 3185.30

20

203-4/27- PRESSURE TESTED SYSTEM & FOUND SUPPLY HOSE CLAMP VERY LOOSE AT OIL/COOLANT MODULE. TIGHTENED & PRESSURED FOR 1 HOUR. NO OTHER LEAKS FOUND AT THIS TIME.

203-4/28- R&R RADIATOR. NEEDS OIL COOLER LINE, CONDENSOR, AIR DEFLECTOR, HOOD STRAPS & FILLED

203-4/29- TOGETHER, VACUUMED & FILLED, VERIFIED RADIATOR

	STATEMENT OF DISCLAIMER	DESCRIPTION	TOTALS
		LABOR AMOUNT	
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		GAS, OIL, LUBE	
		SUBLET AMOUNT	
		MISC. CHARGES	
		TOTAL CHARGES	
		LESS INSURANCE	
		SALES TAX	
		PLEASE PAY THIS AMOUNT	
(SIGNED) DEALER, GENERAL MANAGER OR AUTHORIZED PERSON (DATE)	CUSTOMER SIGNATURE		

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FREIGHTLINER OF ALTOONA

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PAGE 4

SERVICE ADVISOR: 8015 S Shipman DUWD

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11:14 25APR23		13:12 08MAY23		TRN:FUL/P1125379 AXL:MBA/ART400-4					
LINE	OPCODE	TECH	TYPE	HOURS	LIST		NET	TOTAL	
REPLACEMENT.									

C QUALITY CONTROL

QC QUALITY CONTROL

203 CPDH

0.00

0.00

PARTS: 0.00 LABOR: 0.00 OTHER: 0.00 TOTAL LINE C: 0.00

D** COURTESY INSPECTION

FREE COURTESY INSPECTION

99 CPDH

0.00

0.00

PARTS: 0.00 LABOR: 0.00 OTHER: 0.00 TOTAL LINE D: 0.00

E** DRIVER SIDE STEER WHEEL SEAL LEAKING

99 REMOVE AND REPLACE DRIVER SIDE WHEEL SEAL

203 CPDH

740.00

740.00

1 CM/10045885 SEAL. FF FRONT. CONMET AMKT

72.20

33.54

33.54

1 CHR/453869-8 HUB CAP GASKET

10.77

2.22

2.22

6 23-13315-110 SCREW-HEX.SOCKET

HEAD.M16-2X110.12.9

11.73

8.41

50.46

LUBE REAR FLUID 1.60 Pints Syn REAR 75/90

CPDH

20.00

20.00

PARTS: 86.22 LABOR: 740.00 OTHER: 20.00 TOTAL LINE E: 846.22

20 203-4/29- CONFIRMED LEAK. TORE DOWN, CLEANED UP OIL MESS,
CHECKED BEARINGS & RACES, EMERIED SPINDLE, INSTALLED NEW SEAL,
INSTALLED & TORQUED HUB. INSTALLED & TORQUED CALIPER USING NEW BOLTS.
INSTALLED & TORQUED OIL CAP USING NEW GASKET, FILLED HUB & TOPPED OFF
RIGHT SIDE HUB. ADJ BOTH STEER AXLE BRAKES, INSTALLED & TORQUED WHEEL,
VERIFIED REPAIR.

CUSTOMER PAY EPA FEE FOR REPAIR ORDER

110.87

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SUBLET AMOUNT

MISC. CHARGES

TOTAL CHARGES

LESS INSURANCE

SALES TAX

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PAGE 5

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11:14 25APR23		13:12 08MAY23							
LINE	OPCODE	TECH	TYPE	HOURS	LIST		NET	TOTAL	

R3630 FTL CENTRALIZED 000000
DTNS24669064 (AM) 5/5 NEED NEW
TRANSMISSION SERIAL #!!

THANK YOU FOR YOUR BUSINESS!
HOURS MON-FRI 7AM-11:30PM SAT 7AM-3:30PM
AFTER HOURS PLEASE CALL 814-330-1483
WWW.TRANSTECK.COM
IT IS RECOMMENDED TO RE-CHECK TORQUE ON ALL
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DESCRIPTION

TOTALS

LABOR AMOUNT	2590.00
PARTS AMOUNT	1421.52
GAS, OIL, LUBE	20.00
SUBLET AMOUNT	0.00
MISC. CHARGES	110.87
TOTAL CHARGES	4142.39
LESS INSURANCE	0.00
SALES TAX	0.00
PLEASE PAY THIS AMOUNT	4142.39

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