

2008 Sterling
CUMMINS 46774453
VIN : 2FZAASBS28AZ24857
Mileage 162584

Trans : AUTO
License : 13560L

7/31/19
TRK# : 15 1:36 pm

Service Requests:
CHECK AND ADVISE OIL IN COOLANT RESERVOIR
REPLACE ENGINE OIL COOLER
CHECK AND ADVISE EGR COOLER
CHECK AND ADVISE #4 CYLINDER

Category Summary
ENGINE DIAGNOSTICS
ENGINE REPAIR
INSPECTION
SUBLET/OUTSIDE SERV.

Parts Labor Job Total

Parts Labor Job Total

Technician	Service Description
29	COURTESY SAFETY INSPECTION
29	CHECK AND ADVISE OIL IN COOLANT RESERVOIR "Technician Comments" pulled in filled with water pressure tested coolant system found water dripping from cylinder 4 drained water removed hoses and lines pulled head bolts pulled head stripped head for testing
63	REMOVE #4 PISTON AND FILL BLOCK WITH COOLANT. TRYING TO FIND A PIN HOLE. REPLACE ENGINE OIL COOLER "Technician Comments" remove alt,coolent tubes, and fittings ,oil filter,misc,brkts,unbolt remove cooler,clean parts install new cooler core with new gaskets,install parts removed,
29	CHECK AND ADVISE EGR COOLER pulled egr cooler off and cooler is not leaking or plugged
SUB	Sublet Labor.
LAB	INFRAME INFRAME "Technician Comments" remove piston coolers,pistons,rods,liners,noticed block excessively rusty inside,started to clean block,finedished. cleaning block deck and counter bores,check each liner height they are just on low side of specs advised forman,install liners with new seals,assemble new pistons on new rods with new piston rings,install pistons with new bearings and piston coolers torque bolts to specs,replace main bearings torque bolts to specs,check thrust end play was within specs, started to assemble head,install as much parts that i can at this point,install head with new gasket torque bolts to specs,install injectors and tubes with new seals torque bolts to specs,install fuel rail with new seals,install rockers,push tubes, torque bolts to specs adjust valves to specs,install rocker housing with new seal,hook up lines,harness.replace thermostat with new seals,install valve cover and filter housing with new filter,prime new oil filter and install,install oil pan with new gasket,tighten drain plug,fill with oil,hook up engine harness,install rad assembly,flush rad res,best as possible tank stained. hook up a c lines with new seals,clean grease from int,floor mats,steam off engine and truck,install engine tunnel,ect,let run outside pick up trash mop floor

#15

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Technician	Service Description	Parts	Labor	Job Total
S	SEAL			
S	GASKET			
S	GASKET			
S	PUSH ON HOSE			
S	HOSE BARBS			
S	HOSE CLAMP			
S	BLUE BUTT CONNECTOR			
S	15/40 CJ OIL			
S	RED AN/FREEZE			
S	LUBE FILTER			
S	PLASTIC TIES			
S	BOLT/NUT, ETC			
S	BRAKE CLEAN			
S	AIR FILTER			
S	CRANKCASE FILTER			
S	ORING			
S	BREATHER			
S	HOSE			
S	GASKET			
S	SEAL OIL			
S	UPPER GASKET ENGINE			
S	ROD CONNECTING			
S	KIT PISTON			
S	CYLINDER LINER			
S	BEARING CON ROD			
S	SET BEARING MAIN			
S	NOZZEL, PISTON COOLING			
S	PAN GASKET			
S	GASKET			
S	THERMOST			
S	GASKET, OIL COOLER CORE			
S	GASKET, OIL CLT COVER			
S	CORE COOLER			
S	GASKET			
S	SEAL 2.04			
S	ORING			
S	INJ. SEAL			
S	O-RING			
63	CON'T had to order coolant hoses, replaced hoses on egr cooler, turbo actuator up to reservoir, installed lower radiator hose, had to order coolant, filled with 9 gallons of coolant, checked oil and was full, charged ac system with 2.5 lbs of freon, installed hood, checked over truck for loose clamps and fittings and tightened stuff where necessary, tried starting truck but batteries were weak, put chargers on batteries, installed frame supports under engine, tried starting again and fired up, had fuel lines leaking, shut off and tightened fuel lines, started back up and checked for more leaks, ac line blew so hurried up and recovered what freon i could, advised needs ac line and checked over before test drive, INSTALLED DRIVELINE WITH NEW STRAP KITS			
63	REMOVE #4 SLEEVE AND CHECK FOR PITTING drained block, removed sleeve, has pitting in 3 different spots on sleeve STATIC SEAL #6			
21	REPLACE CAM BEARINGS **Technician Comments** remove hood, evap a/c remove rad assembly, balancer, front tin cover, secure lifters, unbolt thrust plate, remove cam and lifters. remove cam bearings, prep block and bearings apply lock tight align and install new cam bearings, check oil passages for alignment, install lifters and cam, align timing marks torque thrust plate bolts to specs, check gear and thrust on cam w/s with in specs, clean front cover and housing, install new front main seal apply sealant, install cover torque main and cover bolts to specs, install thread lock and install balancer and adapter plate torque bolts to specs,			
S	CAM BEARING			
S	WHITE ASSY LUBE			
S	PERMATEX			

Payments:

07/31/19

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7/31/19
1:36 pm

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Technician	Service Description	Parts	Labor	Job Total
	Visual walk around - Inspected & OK At This Time			
	All Exterior Lights			
	Horn Air / Electric			
	Warning Indicators/Gauges			
	Heating			
	AC			
	Wipers/Washer			
	Glass/Mirrors - Inspected & OK At This Time			
	Lights			
	Coolant Level and Leaks			
	Drive Belt/Tensioner - Inspected & OK At This Time			
	Air Filter			
	Clutch Operation			
	Air leaks			
	Steer brake thickness - Inspected & OK At This Time			
	Drive brake thickness - Inspected & OK At This Time			
	Left Steer Tire - Inspected & OK At This Time			
	Right Steer Tire - Inspected & OK At This Time			
	Left Rear Tires - Inspected & OK At This Time			
	Right rear tires - Passed Inspection			
	Brake Hoses/Lines - Inspected & OK At This Time			
	Brake Chamber condition - Inspected & OK At This Time			
	Shocks - Inspected & OK At This Time			
	Steering/ Front Suspension - Inspected & OK At This Time			
	Axles/Driveshaft/U Joints - Inspected & OK At This Time			
	Exhaust - Inspected & OK At This Time			
	Transmission Fluid - Not Inspected			
	Oil Level Wet Hubs - Inspected & OK At This Time			
	Engine Oil Leaks - Inspected & OK At This Time			
	Power Steering Fluid - Inspected & OK At This Time			
	Oil Change Sticker - Not Applicable			

Approved By	Approval Given to:	Authorizations			Total	Method
		Date	Time	Difference	Authorized	
SHELBY ELECTRIC		7/23/19	8:00 am			By Phone
Reason: OVERHAUL						
SHELBY ELECTRIC		7/23/19	9:31 am			By Phone
Reason: CAM BEARINGS						

Repair Order Notes

Invoices Assigned and Payable to:
Corporate Billing, LLC
Dept 100, PO Box 830604
Birmingham, AL 35283
(877) 584-3600

TOTAL PARTS
TOTAL LABOR
SUBLET
SHOP SUPPLIES
SUBTOTAL
OTHER FEES
SALES TAX
TOTAL INVOICE \$14,272.76
PAID
DUE