

INVOICE

Invoice # IN-303952
SO # SO-0438654
Date 04/30/2019

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Vehicle info: Year/Make/Model 0 / / Cust Unit # 449
VIN/Short VIN 1HSHXHR97J444416 / 7J444416 Miles/Hours 401905 / 0
Repair Order no. RO - RO-0053860 Operation # 2
Condition DOT inspection
Correction JBS> Preformed DOT inspection and failed. see repairs on other lines. passed after repairs.
Installed glad hand seals and washer cap

Part number	Description	Ord	Del	B/O	List Price	Unit price	Ext. price
223_10024	GLADHAND SEAL,(DUST-FREE)	2	2	0			
117_2508669C1	W/W FILL CAP	1	1	0			

Labor

Repair Order no. RO - RO-0053860 Operation # 3
Condition abs light
Correction Ohmed out sensors and failed.
jacked up rear axle and pulled wheel speed sensors. replaced both drive axle speed sensors. abs light comes and goes. checked over wiring , has been spliced into befor. hooked computer up and found what pins needed too be checked for wiring , had too fined the abs moduel found it on pass side kick pannel pulled connectors off and pined out too make sure the wiring is not grounded or shorted. in further testing found that mins on fire wall are corroded and creating high resistance cleaned up pins and tested still has one code left for abs . tested the wires and found one that had high resistance isntalled new wire and tested no abs codes

Part number	Description	Ord	Del	B/O	List Price	Unit price	Ext. price
221_801551	SPD SENSOR 90 40 DT04	2	2	0			
223_BE28171	16GA WHITE 100FT SPOOL	15	15	0			

Labor

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Repair Order no. RO - RO-0053860 Operation # 4
Condition engine oil leak

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Correction cw> drained coolant. removed hood and bumper pulled radiator. removed all accesory drive componets and harmonic balancer. lifted engine and removed front motor mounts. pulled outter front cover and removed all the gears. pulled the cam. found it needed cam bearings so replaced those. pulled air compressor off of front cover, water pump and power steering pump. replaced inner front cover. timed all the gears and put the air compressor and water pump and power steering pump on. put new outer front cover on. bolted up new front cover and motor mount. put radiator in and hood back on and filled with new coolant.

Part number	Description	Ord	Del	B/O	List Price	Unit price	Ext. price
341_3804304	SEAL KIT	1	1	0			
341_4955665	SEAL KIT	1	1	0			
341_4089995	SEAL KIT	1	1	0			
341_4985107	ISM GEAR HOUSING	1	1	0			
341_3820946	SQUARE CUT O-RING	1	1	0			
341_3820945	SQUARE CUT O-RING	1	1	0			
341_3201659	SQUARE CUT O-RING	1	1	0			
341_3883150	O-RING SEAL	1	1	0			
341_4089996	FRONT COVER KIT	1	1	0			

Labor

Repair Order no. RO - RO-0053860 Operation # 5

Condition Heat & A/C not working

Correction cw> removed outer a/c box. removed heater core lines. loosened dash up. pulled inner heater box. put used one in and put dash back together. put new a/c accumulator on outer box with new orings. put box in and put wiper cowl back on. found a bypass switch on dash for a/c, removed and hooked up orginal wire for a/c compressor. pulled bypass wire from fuse box and switch. everything is working as it should.

Part number	Description	Ord	Del	B/O	List Price	Unit price	Ext. price
263_PART_NC	MISC PART - NO CORE	1	1	0			
Used a/c heater box							
507_750-7301	SUCTION PORT SEALING WASHER	3	3	0			
507_750-7300	DISCHARGE SEALING WASHER	3	3	0			
507_750-7302	O-RING DISCHARGE PORT	3	3	0			
507_800-1900	ACCUMULATOR - NAVISTAR	1	1	0			
760_PA4985	CAB FILTER	1	1	0			
507_750-7303	SUCTION PORT ORING	3	3	0			

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Repair Order no. RO - RO-0053860 Operation # 6
Condition Fog lights issue...only spend 30min to hr
Correction cw> unplugged fog lights and removed them.

Part number	Description	Ord	Del	B/O	List Price	Unit price	Ext. price
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Labor

Repair Order no. RO - RO-0053860 Operation # 7
Condition Increase road speed no cruise limit
Correction cw> changed all limits on speed from 63 to 90 mph.

Part number	Description	Ord	Del	B/O	List Price	Unit price	Ext. price
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Labor

Repair Order no. RO - RO-0053860 Operation # 8
Condition engine rebuild
Correction cw> removed valve cover, pulled jake brakes off. removed rocker arms. pulled injectors and removed old o rings. removed intake horn and egr system. removed rocker box. pulled all fuel lines off along with the egr valve. removed coolant lines from water pump to the head. pulled all the head bolts and removed head. everything in the lead was very loose coming off. not to spec. sent off head and found the head to be bad. Cracked. dropped oil and oil pan. removed rod caps and pulled pistons. removed liners. spun in new main bearings and troqued main caps. cleaned crank and built piston packs. put o rings on new liners and put them in the block after cleaning it. installed pistons with new connecting rod bearings. cleaned headgasket surface and set new head on. torqued headbolts to spec. put new o rings on the injectors. set in the injectors. installed all the push tubes and set on the rocker arms. ran the overhead. Injector harness was replaced because the pass through was bad. set jake brakes on. adjusted them. put on both rocker boxes. bolted on exhaust manifold and the the egr cooler with new egr valve. put a new pressure diff on and cleaned all venturi tubes. set turbo on hooked up all the lines. put intake pipe back on.
EGR valve had a mechanical fault and needed replaced. had code for EGR pressure diff sesnor that was bad. EGR cooler was removed, pressure tested, and cleaned.

test ran checked. repaired coolant leak. put few hrs on and test drove.

Part number	Description	Ord	Del	B/O	List Price	Unit price	Ext. price
341_4952625	AIR COMPRESSOR MOUNTING GASKET	1	1	0			
341_2863701	O-RING SEAL	1	1	0			
341_3892105	BOLT M10 X 1.50 X 100MM	5	5	0			
341_3899746	ACC DR SUP GASKET	1	1	0			
341_4003914	LEVER	1	1	0			
341_3820988	10MM X 1.50 X 35MM BOLT	1	1	0			
341_2863702	O-RING SEAL	1	1	0			

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196_MM55-62003	MOTOR MOUNT (FRONT)	2	2	0
760_RS4862	AIR FILTER	1	1	0
151_151565	CAM BEARING KIT	1	1	0
151_ISM102-017	CUMMINS ISM INFRAME	1	1	0
151_181887	ISX T-STAT	1	1	0
341_3818824	M10 X 1.50 HEX NUT	4	4	0
151_040113	TURBO STUD	4	4	0
151_131451	GASKET,PUMP	1	1	0
GRX_05089PS	29 OZ. CRC BRAKE CLEAN	4	4	0
341_3401439	CAMSHAFT GEAR	1	1	0
415_24824	1-1/2" SILICONE COOLANT HOSE	3	3	0
341_3683144	3-1/2" V-BAND CLAMP	1	1	0
101_36B-450	CONSTANT ROQ CLAMP 3.75 - 4.625	1	1	0
332_FP-3104230	EGR VALVE GASKET	1	1	0
341_3102392	GASKET	1	1	0
341_2864028RX	CYLINDER HEAD	1	1	0
Core exchange				
341_3418284	FUEL SUPPLY TUBE	1	1	0
341_3102753	TUBE	1	1	0
341_4004381	UNION, MALE	2	2	0
341_3328637	SCREW	5	5	0
341_3328379	10MM X 1.50 X 75MM BOLT	2	2	0
341_3025296	GASKET	1	1	0
341_3893692	THERMOSTAT SUPPORT GASKET	1	1	0
117_1812348C1	SLEEVE	1	1	0
760_BD50000	HIGH EFFCY DUAL-FLOW LUBE SPIN-ON	1	1	0
760_PF7895	FUEL/WATER SEPARATOR ELEMENT	1	1	0
290_422126	BATTERY TERMINAL NUT	2	2	0
341_3033915	O-RING SEAL	1	1	0
332_FP-3049221	O-RING SEAL	1	1	0
345_500010048	ROTELLA T4 15W40 BULK - QT	43	43	0
GRX_DIESEL	DIESEL FUEL	35	35	0

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341_2864516	HARNESS	1	1	0
341_4070529	ROCKER HOUSING GASKET	1	1	0
341_4955421RX	REMAN EGR VALVE KIT	1	1	0
Core exchange				
341_4921728	EGR PRESSURE DIFF SENSOR	1	1	0
GRX_RAFRED	ANTIFREEZE RED	15	15	0

Labor

Freight In Freight In

Labor - Repair Shop CLEAN EGR COOLER

Labor - Repair Shop CHECK OUT OLD HEAD[BAD]

Repair Order no. RO - RO-0053860 Operation # 9

Condition REPLACE STARTER

Correction cw> starter was trying to start truck while running. pulled off the wires. tried to remove top bolt it was corroded and was difficult coming out. removed other two bolts and starter. put in new starter. put wires on and hooked batteries back up.

Part number	Description	Ord	Del	B/O	List Price	Unit price	Ext. price
401_8200308	39MT STARTER 11TOOTH	1	1	0			

Labor

Repair Order no. RO - RO-0053860 Operation # 10

Condition marker light

Correction Diag marker light right front, replaced light and working as it should.

Part number	Description	Ord	Del	B/O	List Price	Unit price	Ext. price
117_3529900C98	LIGHT	1	1	0			

Labor

Shop supplies

Total merchandise

Total cores

Total labor

Tax amount

Invoice total \$28,677.07

Received by

