

INVOICE

2030

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Printed Date: 11/12/2023

Work Completed: 11/12/2023

2014 Mack - Granite Series - GU-713 - Mack MP7 V-MAC IV (GU Series

Lic # :

Unit # : SW-302,016

Odometer In : 377861

VIN # : 1M2AX04C4 EM020218

Part Description	Qty	Sale	Ext	Labor Description	Ext
HD Battery	3.00			Check Excessive Blowby	7,000.00
Camshaft Bearing Set	1.00			Checked, found blowby out of spec. Troubleshoot, determined	
Flange Screw	2.00			cylinders dusted causing excessive crankcase pressure. Truck sat	
Injector O-Ring Kit	6.00			outside until we got a chance to get it in and make repairs. Once	
M16x65 2.0 Capscrew	4.00			ready to pull in. batteries were dead. Tried to jumpstart for over an	
Oil Filter	2.00			hour, truck would not start. Removed and replaced batteries. Got	
Bypass Oil Filter	1.00			fired up, pulled hood, pulled in shop, drained coolant, unhooked and	
Fuel/Water Separator	1.00			removed cooling package. Removed dog house. Drained oil.	
Fuel Filter	1.00			Removed piping, valve cover and oil pan. Pulled rockers, injectors,	
Air Filter	1.00			upper timing cover, camshaft. Unhooked intake and exhaust sides of	
Coolant Size: GALLON	12.00			cylinder head. Removed fan hub mounting assembly. Removed	
SHELL T2 HD 15W40 CK4 Size:	9.00			cylinder head. Removed oil pump. Unbolted rod caps, pulled piston	
BULK				assemblies. Removed liners. Cleaned block and cylinder holes.	
Shop Supplies				Inspected counter bores, found bores in good shape. Replaced main	
				bearings. While replacing, inspected journals, all journals in good	
				condition. Installed new liners, installed new piston and rod	
				assemblies. Put new rod bearings in and torqued. Swapped	
				manifolds over to new cylinder head. Installed cylinder head and	
				torqued. Installed cam shaft with new cam bearings and torqued.	
				Timed camshaft. Installed injectors. Replaced upper timing gasket	
				and installed. Installed rockers, torqued, ran overhead. Put valve	
				cover back on. Reassembled front and both sides of engine.	
				Installed new oil pump. Replaced pick up tube o-rings and installed	
				pick-up tubes. Installed oil pan. Replaced Crankcase ventilation filter	
				assembly. Installed new fan ring. Installed cooling package and	
				hooked up. Hooked up all piping, lines, and hoses. Changed air, oil,	
				and fuel filters. Filled with new oil and coolant. Recharged A/C.	
				Cranked engine until oil pressure came up. Primed fuel system, fired	
				truck up. Truck running like it should. Let truck idle, verified no leaks	
				and truck running well.	
				Customer provided OEM inframe kit, cylinder head, oil pump, and	
				gasket sets.	

Labor:

Parts:

Sub:

Tax:

Total:

Bal Due: \$9,313.24

Customer Number: 24

Vehicle Received: 11/12/2023

Date