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Coding Information

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Title: 2015+ N13 Cylinder Pack - Update for Excessive Lubrication Oil Consumption

Applies To: 2015+ N13 ESN: 4400000-4401769

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

*04/27/2017 - Added note to verify repair history prior to following procedure.
 *02/27/2017 - Updated Tooling Information
 *02/20/2017 - Added additional caution information for the rod torque.
 *02/13/2017 - Changed noun to 192
 *01/30/2017 - Part Number Corrections

DESCRIPTION

On certain N13B engines serial numbers ranging from **4400000 - 4401769**. Carbon can build-up on the top lands of the pistons and cause the piston rings to stick leading to loss of oil control in the power cylinders and increased oil consumption.

An updated cylinder kit is now available to address this condition. The updated liner integrates a removable "anti-polish" carbon scraping ring which sits in a machined counterbore. This anti-polish ring (APR) has a smaller internal diameter than the rest of the liner that allows it to scrape carbon off of the top land of the piston during normal operation. This action of continuously removing carbon buildup from the top land of the piston prevents the rings from carbon packing and losing oil control in the power cylinders.

CAUTION:

Before beginning this procedure, please check warranty repair history in Service Portal. If APR cylinder kits have already been installed, do not proceed through this article without contacting Tech Services.

NOTE:

APR liners cannot be mismatched with standard liners. If for any reason an APR liner needs to be installed in an engine with standard liners, all 6 liners will need to be updated to the APR liners.

SYMPTOM(s)

Excessive Lubrication Oil Consumption (as defined by the diagnostic manual)

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number
Tool, Piston Cope	12-146-01
Cylinder Sleeve Puller	ZTSE2536
Socket, Head Bolt (E24 Torx)	ZTSE4787
Socket, External Torx (E18)	ZTSE4835
Tap, M18x2 Bottoming (Head)	ZTSE4855
Bracket, Cylinder Head Lifting	12-342-03
Set MaxxForce 11&13 Cap & Plug	ZTSE4891

SERVICE PARTS INFORMATION

CAUTION:

The following component inspections and/or replacements are NOT covered under warranty for this repair:

- **Oil Pump**
- **Main Bearing**
- **Turbo**
- **Fuel Injector**
- **Oil Cooler**
- **Engine Oil (Recommended to replace at time of maintenance interval)**
- **Engine Coolant**
- **Cylinder Head**

Any additional parts that are replaced will be considered customer responsibility.

NOTE:

The parts listed below are to be replaced under warranty during the warranty period. This is an update to correct the symptom of oil consumption on 2015+ N13 Engines and is not considered a overhaul. The parts listed below are the only parts covered for this symptom.

CAUTION:

The N13 Engine has two different cylinder liners available in the Parts Catalog. It is important to verify that the most up-to-date liner is being installed. Follow the parts listed below.

Kit Description	Part Number	Quantity Required	Notes
KIT, CYLINDER HEAD REMOVAL	2515548C91*	1	
GASKET, 13L CYLINDER HEAD	62039010402*	1	
GASKET,OIL PAN	3003425C2*	1	
KIT, OIL FILTER	3007498C94*	1	
KIT, PSTN SLV & RING (718 13L)	2514508C91*	6	
KIT, 745 CONNECTING ROD BEARING- 1 CYLINDER	2513433C91*	6	*SEE CAUTION NOTE BELOW*
SCREW	62904900079*	12	
SEAL O-RING 32 X 5	06569361612*	1	
TUBE ASSEMBLY TURBOCHARGER OIL SUPPLY	3018397C93*	1	
GASKET	2601233C1	2	Only used if aftertreatment is being serviced - DOC/DPF Gaskets
GASKET 4" EXH PIPE FLANGE	3846392C1	1	Only used if aftertreatment is being serviced - DOC Outlet gasket

NOTE: Items marked with an asterisk (*) are required.

DIAGNOSTIC STEP(s)

Follow: [2015 N13 Engine Diagnostic Manual](#) for oil consumption diagnostics.

REPAIR STEP(s)

Follow: [2015 N13 Engine Service Manual](#) for base engine repairs.

CAUTION:

13L connecting rod bolt torque is CRITICAL. Apply a light amount of clean 30W engine oil to the underside of the new rod bolt head and threads. Follow the torquing procedure EXACTLY as written in the latest Service Manual using a calibrated torque wrench.

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	12000 - ENGINES
Noun:	192 - Sleeve, Cylinder

Standard Repair Time(s):

Description	Chassis	Engine	SRT	Notes

12 - PISTON AND/OR SLEEVE (I-6), REPLACE	Models, ALL	N13	A12-1192U	ONE
			A12-1192US-11 EACH ADDITIONAL	
12 - CYLINDER HEAD OR REPLACE GASKET (13L), R & R AND/OR REPLACE	Models, ALL	N13	A12-1342UT	

OTHER RESOURCES

[Master Service Information Site](#)

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