

**SUBJECT****N20 and N26 Engine: Oil Leaks from Cylinder Head Cover****MODEL**

E84 (X1)

E89 (Z4)

F10 (5 Series Sedan)

F22 (2 Series Coupe)

F25 (X3)

F30 (3 Series Sedan)

F31 (3 Series Sports Wagon)

F32 (4 Series Coupe)

F34 (3 Series Gran Turismo)

F36 (3 Series Gran Coupe)

**SITUATION**

There is an engine oil leakage under the vehicle, or the vehicle smells of engine oil.

**CAUSE**

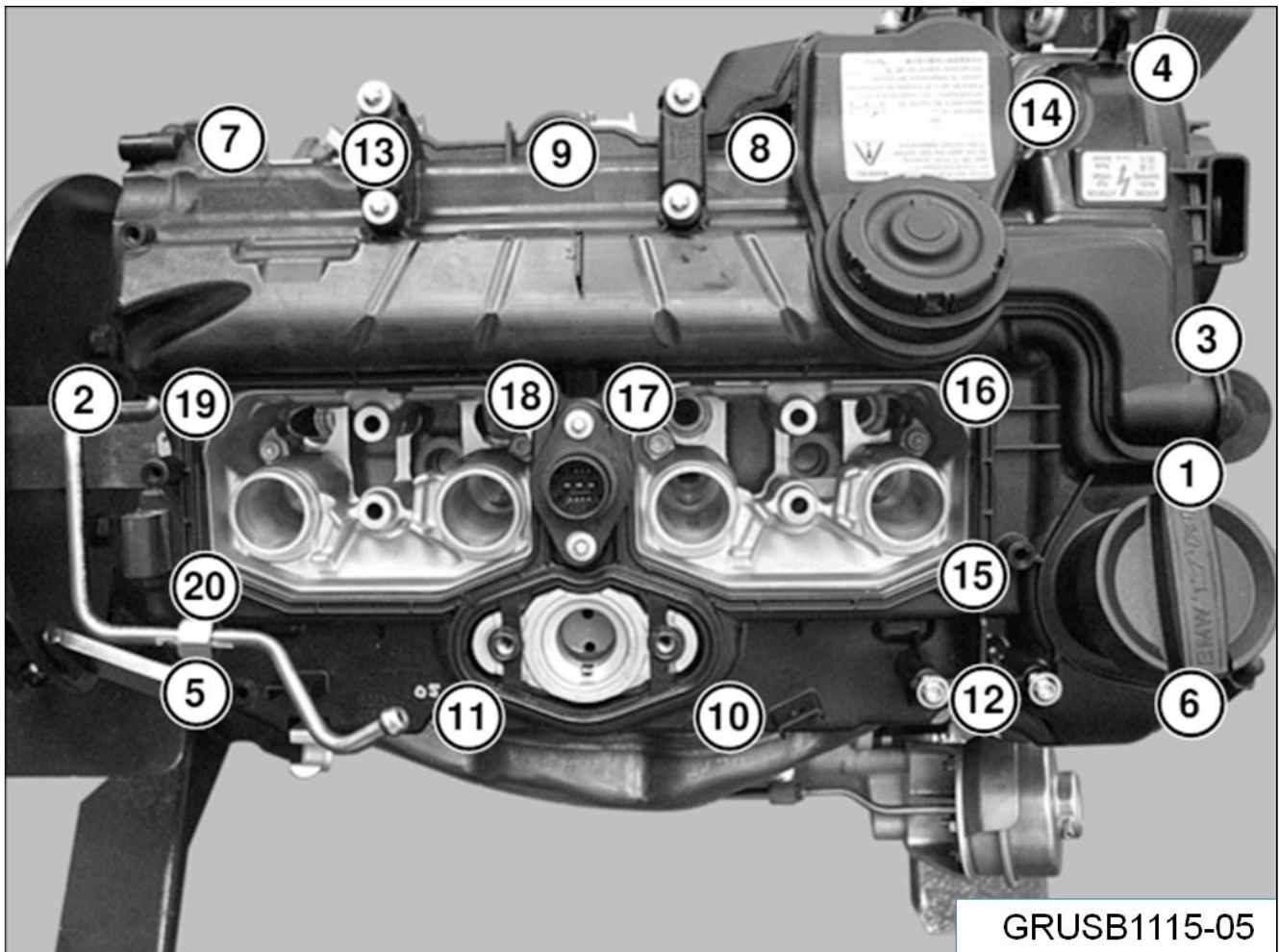
The cylinder head cover gasket is leaking engine oil due to loose retaining bolt(s).

**PROCEDURE**

1. Verify that the engine oil leak is coming from the cylinder head cover area.

Note: Engine oil residue from topping up or from a previous engine oil service around the oil filter housing can lead to a misdiagnosis.

2. Check that all of the cylinder head cover bolts are tight, using the tightening sequence in the illustration below. Retighten each bolt to 6 Nm.



3. If one or more of the bolts require additional tightening to achieve 6 Nm of torque, note the location of the loose bolt(s) using the identifying bolt numbers in the illustration.

If none of the bolts are loose then the source of the oil leak resides somewhere else, proper diagnosis may require cleaning the entire area to locate the source of the oil leak.

4. If a loose cylinder head cover bolt is identified, submit a PuMA Info Only case with “N2X Engine Cylinder Head Cover Leak” in the subject line. Enter “N2XL” in the fault entry field of the attachment page. Note in the description of the case which bolts were loose, using the tightening sequence illustration, and then submit the case.

Do not wait for a response and proceed to step 5.

5. Replace the cylinder head cover gasket using P/N 11 12 7 588 418. Refer to Repair Instruction 11 12 000, “Removing and installing/sealing cylinder head cover (N20, N26).”

#### PARTS INFORMATION

Part Number	Description	Quantity
11 12 7 588 418	Gasket set, cylinder head cover	1

#### WARRANTY INFORMATION

Covered under the terms of the BMW New Car/SAV Limited Warranty or the BMW Certified Pre-Owned Program.

<b>Defect Code:</b>	<b>11 12 01 48 00</b>	
<b>Labor Operation:</b>	<b>Labor Allowance:</b>	<b>Description:</b>
11 12 000	Refer to KSD	Removing and installing or replacing cylinder head cover gasket
<b>And:</b>		
11 99 000	3 FRU	Work time to check and document the

		bolts that were found loose
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Labor operation code 11 12 000 is a Main labor operation. If you are using a Main labor code for another repair, use the Plus code labor operation 11 12 601 instead.

Refer to KSD2 for the corresponding flat rate unit (FRU) allowance. Enter the Chassis Number, which consists of the last 7 digits of the Vehicle Identification Number (VIN). Click on the "Search" button, and then enter the applicable flat rate labor operation in the FR code field.

Even though work time labor operation code 11 99 000 ends in "000," it is not considered a Main labor operation. Also, since the "work time" FRU allowance to be claimed is specified, a separate punch time is not required.

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