



Removal and refitting of the oil cooler

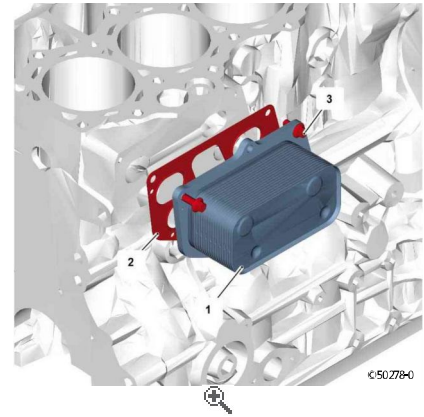


NOTE

Collect auxiliary materials in suitable containers and dispose of them in compliance with the applicable regulations. The engine oil should be drained and replenished following the instructions given in the operation manual.

Removal of the oil cooler

- 1 - Lubricant oil radiator
- 2 - Gasket
- 3 - Hex screw



1.

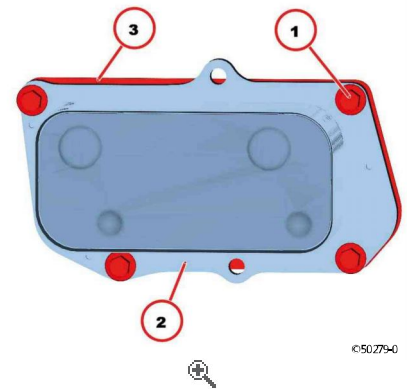
- Remove all the screws (1).
- Remove oil cooler (2).
- Remove seal (3).



NOTE

Collect used lubricating oil and dispose of it in accordance with the applicable regulations.

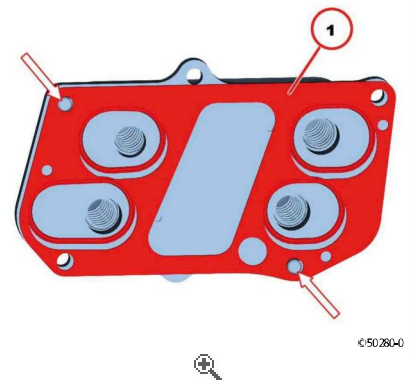
- Carry out a visual inspection of the components.



2.

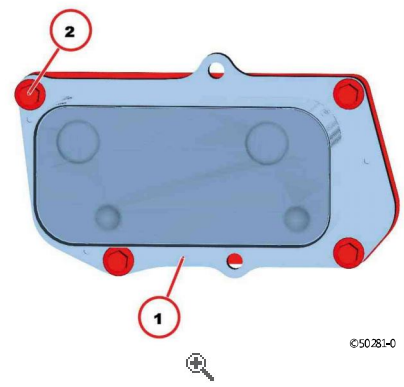
Refitting the oil cooler

- Carry out a visual inspection of the components.
- Clean the mating surfaces.
- Tighten the screws (arrowed).
 - M8x20-10.9
- Fasten the new gasket (1) to the oil cooler with the screws.



1.

- Fit the lubricant oil cooler (1).
- Tighten screws (2).
- Tighten all screws (2) alternately: 30 Nm



2.

Technical data

Tightening torque

ID no.	Designation	Screws type	Indications/observations	Value
A15 051	Oil cooler housing in correspondence of the crankcase			30 Nm



NOTE

When tightening fasteners to the specified torque using a torque wrench, a torque dispersion of +/- 10 % is permitted.



Lubricating oil filter console

NOTE



Collect operating materials in suitable containers and dispose of them in compliance with the applicable regulations. To drain and replenish the engine fluids and lubricants, follow the instructions provided.

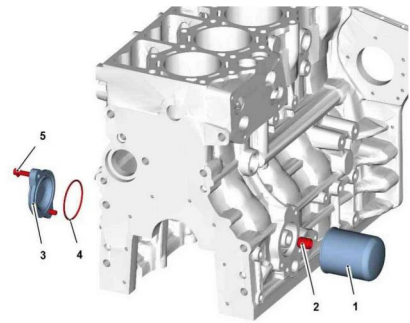
- o 1 - Replacement filter: 12 Nm
- o 2 - Threaded bush
- o 3 - Cover
- o 4 - O-ring
- o 5 - Hex screw: 30 Nm



NOTE

Use a new O-ring.

1.



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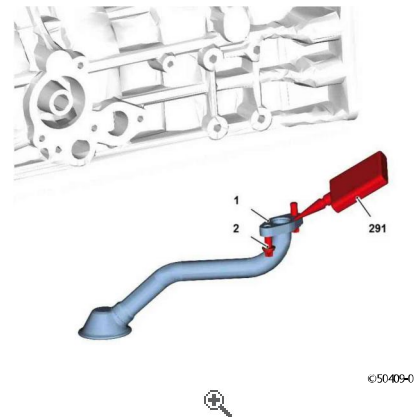


Removal and refitting of the oil pickup pipe

- DEUTZ DW 73 sealant

Removal of the oil pickup pipe

- 1 - Oil intake pipe
- 2 - Torx screw
- 291 - Sealant

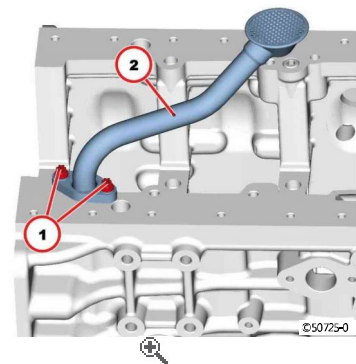


1.

- Remove the oil sump pan.



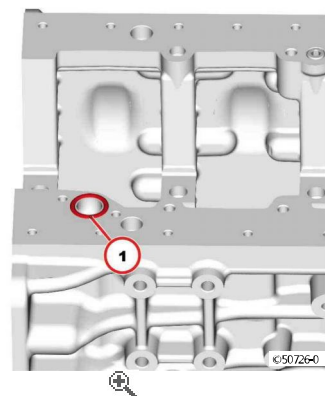
- Remove screws (1).
- Remove oil pickup pipe (2).
- Carry out a visual inspection of the component.



2.

Refitting the oil pickup pipe

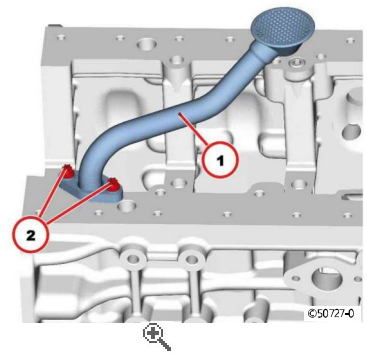
- Clean the sealing surface.
- Apply sealant (1) evenly to the mating surface.



1.

- Clean the sealing surface.
- Fit the oil pickup pipe (1).
- Tighten the screws (2): 22 Nm
- Fit the oil sump pan.





2.

Technical data

Tightening torque

ID no.	Designation	Screws type	Indications/observations	Value
A16 015	Oil cooler housing in correspondence of the crankcase	M8x25-10.9		22 Nm



NOTE

When tightening fasteners to the specified torque using a torque wrench, a torque dispersion of +/- 10 % is permitted.



Removal and refitting of the lubricating oil pipe (exhaust gas turbocharger)

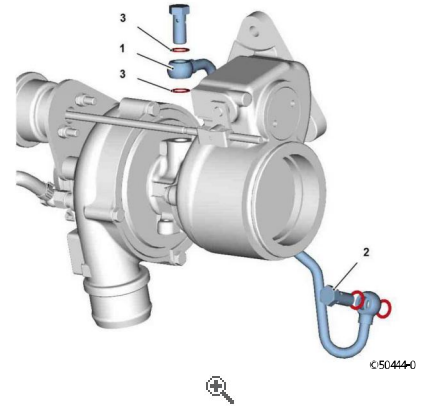
NOTE



Collect operating materials in suitable containers and dispose of them in compliance with the applicable regulations. To drain and replenish the engine fluids and lubricants, follow the instructions provided.

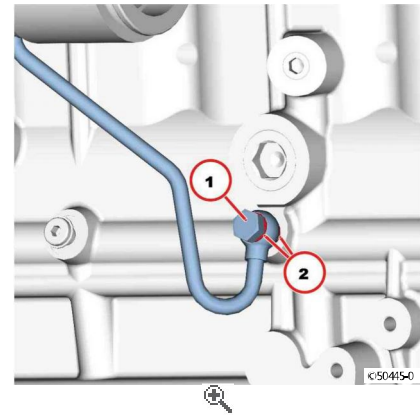
Removal of the lube oil pipe

- 1 - Oil intake pipe
- 2 - Hollow screw
- 3 - O-ring



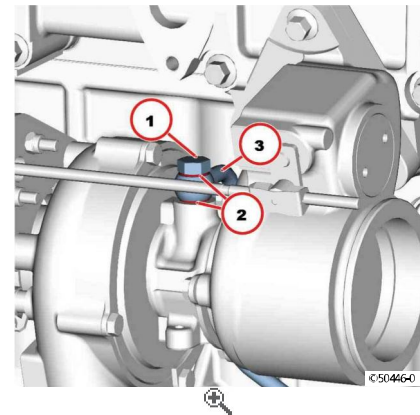
1.

- Unscrew banjo bolt (1)
- Remove oil seals (2).



2.

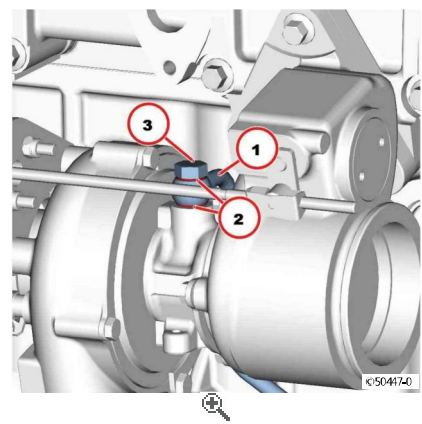
- Unscrew banjo bolt (1)
- Remove oil seals (2).
- Remove lubricating oil pipe (3).



3.

Refitting the lubricating oil pipe

- Clean the sealing surface.
- Fit lube oil pipe (1).
- Fit new seals (2).
- Screw in banjo bolt (3).

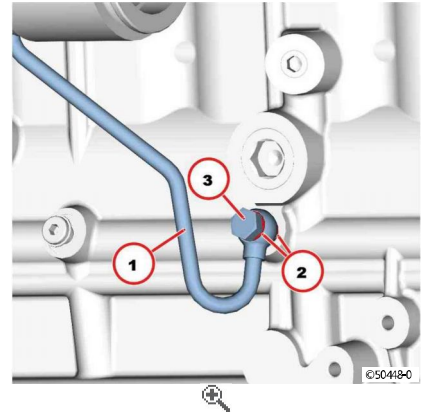


1.
 - Clean the sealing surface.
 - Fit lube oil pipe (1).
 - Fit new seals (2).
 - Screw the hollow screw (3): 18 Nm.



WARNING

When fitting the pipe, ensure that it is not under tension.

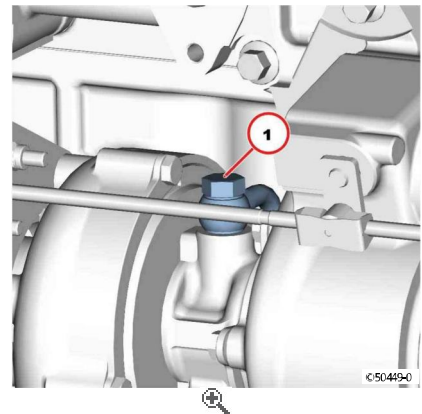


2.
 - Tighten the hollow screw (1): 18 Nm.



WARNING

When fitting the pipe, ensure that it is not under tension.



- 3.

Technical data

Tightening torque

ID no.	Designation	Screws type	Indications/observations	Value
A43 047	Lubricant oil pipe in correspondence with the exhaust gas turbocharger	Hollow screw	Fit new seals	18 Nm
A43 048	Lubricant oil pipe in correspondence of the crankcase	Hollow screw	Fit new seals	18 Nm



NOTE

When tightening fasteners to the specified torque using a torque wrench, a torque dispersion of +/- 10 % is permitted.



Removal and refitting of the lubricating oil pipe (exhaust gas turbocharger)

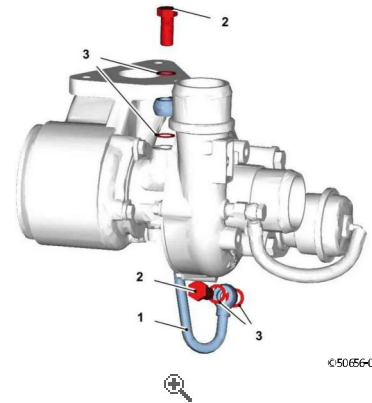
NOTE



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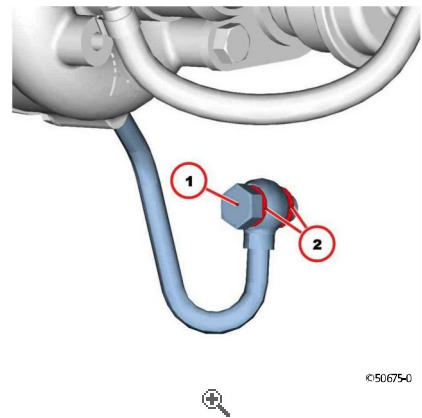
Removal of the lube oil pipe

- 1 - Lubricant oil pipe
- 2 - Hollow screw
- 3 - O-ring



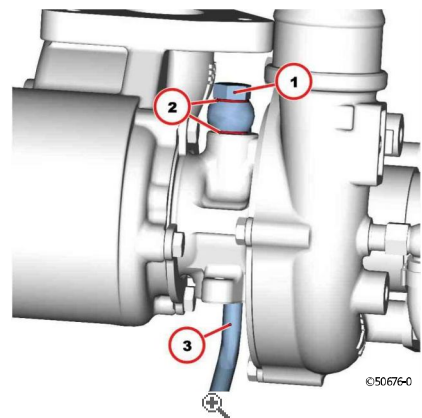
1.

- Unscrew banjo bolt (1)
- Remove oil seals (2).



2.

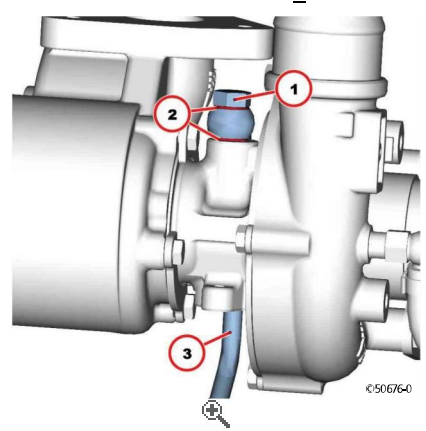
- Unscrew banjo bolt (1)
- Remove oil seals (2).
- Remove lubricating oil pipe (3).



3.

Refitting the lubricating oil pipe

- Clean the sealing surface.
- Fit lube oil pipe (1).
- Fit new seals (2).
- Screw in banjo bolt (3).

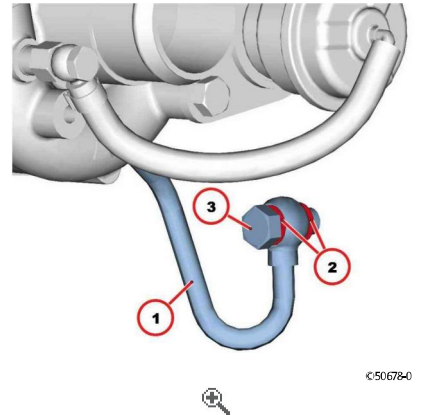


1.
 - Clean the sealing surface.
 - Fit lube oil pipe (1).
 - Fit new seals (2).
 - Screw the hollow screw (3): 18 Nm.



WARNING

When fitting the pipe, ensure that it is not under tension.

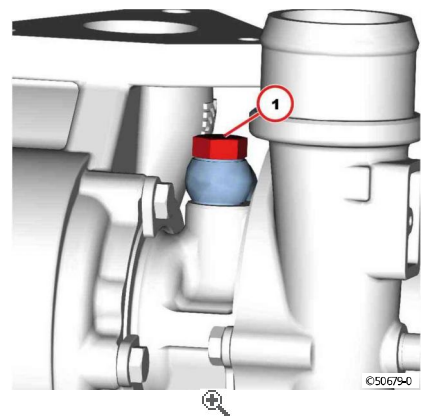


2.
 - Tighten the hollow screw (1): 18 Nm.



WARNING

When fitting the pipe, ensure that it is not under tension.



- 3.

Technical data

Tightening torque

ID no.	Designation	Screws type	Indications/observations	Value
A43 047	Lubricant oil pipe in correspondence with the exhaust gas turbocharger	Hollow screw	Fit new seals	18 Nm
A43 048	Lubricant oil pipe in correspondence of the crankcase	Hollow screw	Fit new seals	18 Nm



NOTE

When tightening fasteners to the specified torque using a torque wrench, a torque dispersion of +/- 10 % is permitted.



Removal and refitting of the lubricating oil return pipe (exhaust gas turbocharger)

Special tools:

- Disassembly tool 02992127
- Assembly product: DEUTZ AP1908

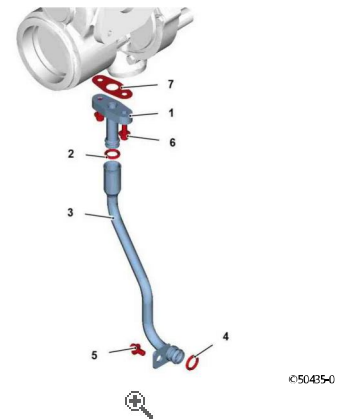


NOTE

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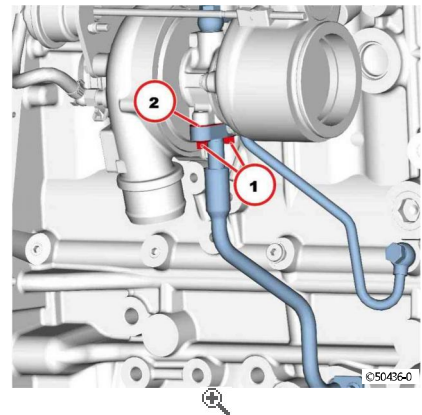
Disassembly of the oil return pipe

- 1 - Fastening flange
- 2 - O-ring
- 3 - Oil return pipe
- 4 - O-ring
- 5 - Hex screw
- 6 - Hex screw
- 7 - Gasket



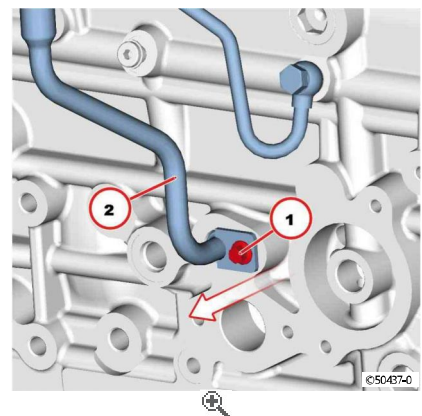
1.

- Remove screws (1).
- Remove seal (2).



2.

- Remove screw (1).
- Withdraw oil return pipe (2) in the direction of the arrow.



3.

- Withdraw the flange (1) in the direction of the arrow.
- Remove the O-ring (2) with the disassembly tool.
- Carry out a visual inspection of the component.

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