

Engine	Start of opening (°C)	Fully open (°C)
H5F 400 not powered	95 +0/-3	105
H5F 400 powered	80 +0/-3	90
H4B 400 not powered	95 +0/-4	107
H4B 400 powered	83 +0/-4	
H4B without thermo-management	83	95
D4F 740	89 +0/-3	101
K9K 608	83 ± 2	95
K9K 612	83 +0/-3	95
K9K 830	83 +0/-3	95
K9K 838	83 +0/-3	95
M5M 400	Cylinder block thermostat	
	83.5 +0/-3	95
	Cylinder head thermostat	
	95 ± 1.5	108



ENGINE OIL - OIL FILTER : DRAINING - FILLING



Note, one or more warnings are present in this procedure



Special tooling required

Oil filter removing tool (76 mm diameter)

Mot. 1329

Oil filter removing tool (66 mm diameter).

Mot. 1330

Equipment required

oil change wrench

oil recovery tray



parts always to be replaced:



Oil filter

Oil filter



WARNING

Wear leaktight gloves (Nitrile type) for this operation.



CAUTION

Always check the oil level using the dipstick.

Do not exceed the maximum level on the dipstick (could destroy the engine).

Correct the engine oil level if necessary before delivering the vehicle to the customer.

Note:



When filling up the engine oil, always leave at least 10 minutes for the oil to drain down before checking the level with a dipstick.

When removing the oil filter, check that the oil filter seal is not still stuck to the cylinder block or the oil filter support.

DRAINING

1. ENGINE OIL DRAINING PREPARATION OPERATION



Position the vehicle on a two-post lift [Vehicle: Towing and lifting](#) .



Remove the engine undertray.

2. ENGINE OIL DRAINING OPERATION



Remove (see **Lubrication circuit: Operating diagram**) :



the engine oil filler cap,



the engine oil level gauge,



the drain plug,

the drain plug seal.



Let the oil run into a oil recovery tray.

REMOVAL

1. REMOVAL PREPARATION OPERATION



Position the vehicle on a two-post lift [Vehicle: Towing and lifting](#) .



Remove the engine undertray.



Fit a oil recovery tray under the engine.

2. REMOVAL OPERATION

REFITTING

1. REFITTING PREPARATION OPERATION



parts always to be replaced:  [Oil filter](#)  seal.



parts always to be replaced:  [Oil filter](#)  .



Use surface cleaner [Vehicle: Parts and consumables for the repair](#) to clean and degrease the oil filter joint face.



Lubricate the oil filter seal with new engine oil.

2. REFITTING OPERATION

Refit (see **Lubrication circuit: Operating diagram**) :

-
- the new oil filter,
- the new oil filter cover seal,
- the oil filter cover.

3. FINAL OPERATION

Remove the oil recovery tray.

Wipe any oil run-off with a cloth.

Fill the engine with engine oil, observing:

-
- the quantity [Maintenance values: Description](#) ,
- the type of engine oil recommended by the manufacturer [Engine oil: Specifications](#) .

Start the engine and wait until the oil pressure warning light goes out on the instrument panel.

Check for leaks from the oil filter.

Wait for at least 10 minutes.

Check the oil level using the dipstick.

Adjust the engine oil level if necessary.

Proceed in the reverse order to removal.

FILLING

1. ENGINE OIL FILLING OPERATION

Refit (see **Lubrication circuit: Operating diagram**) :

-
- the drain plug seal,
- the drain plug.

Position the vehicle back on the ground.

Fill the engine with engine oil, observing:

-
- the quantity [Maintenance values: Description](#) ,
- the type of engine oil recommended by the manufacturer [Engine oil: Specifications](#) .

Wait for at least 10 minutes.