



VM 1500

Service Manual - VM 1500

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World Class Conterns Support

Engine

Changing the Oil and Filter

A CAUTION

It is illegal to pollute drains, sewers or the ground. Clean up all spilt fluids and/or lubricants.

Used fluids and/or lubricants, filters and contaminated materials must be disposed of in accordance with local regulations. Use authorised waste disposal sites. INT-3-2-14

A CAUTION

Hot oil and engine components can burn you. Make sure the engine is cool before doing this job.

2333

A WARNING

Oil

Oil is toxic. If you swallow any oil, do not induce vomiting, seek medical advice. Used engine oil contains harmful contaminants which can cause skin cancer. Do not handle used engine oil more than necessary. Always use barrier cream or wear gloves to prevent skin contact. Wash skin contaminated with oil thoroughly in warm soapy water. Do not use petrol, diesel fuel or paraffin to clean your skin.

INT-3-2-3

If possible, change the oil at operating temperature. Hot oil helps remove any impurities from the lubrication system.

- Park the machine on level ground and stop the engine
 Stopping and Parking the Machine (1-36).
- 2 Open the bonnet to the engine compartment.
- 3 Remove the filler cap.

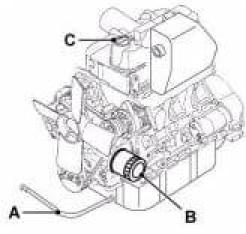


Fig 2.

- 4 Have a collecting tank with a capacity of approx. 10 litres ready.
- 5 Open the drain hose 2-A and drain off the oil into a suitable vessel.
- 6 Turn the oil filter 2-B anti-clockwise and remove it.
- 7 Clean the sealing surface at the filter head with a clean rag.
- 8 Lightly lubricate the seal of the new filter.
- 9 Screw in the filter up to the filter head by hand and then, also manually, tighten it by 1/2 to 3/4 turns.
- 10 Do not use a strap spanner to tighten the filter.
- 11 Close the drain hose.

Note: Ensure the drain port is properly closed.

- 12 Fill the oil into the crankcase through the filler 2-C, ⇒ Fluids, Lubricants and Capacities (□ 3-10).
- 13 Put the filler cap back in place.
- 14 Start the engine and allow it to idle for a few minutes.
- 15 Stop the engine.
- 16 Wait for about 5 minutes, then check the level, ⇒ Checking the Oil Level (□ 3-13).



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Routine Maintenance

Engine

Replacing the Fuel Filters

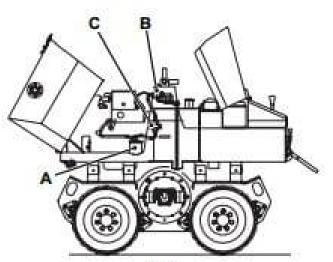
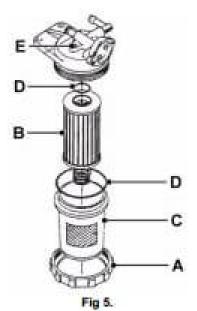


Fig 4.

- A Main Filter
- B Pre-Filter
- C Electronic Fuel Pump

Main Filter

Open the bonnet.



- Unscrew the ring bott 5-A, pull the filter element 5-B out of the filter case 5-C and replace it.
- 3 Slightly wet the O-rings 5-D with clean oil. Reassemble the fuel filter in the reverse order of that described previously.
- 4 Fill the diesel tank before and vent the system using the vent screw 5-E.
- 5 The electronic fuel pump 4-C is used to press the air out of the conduits and the filter. The fuel pump runs with the glow plug starting switch in position "I". Continue to pump until the fuel emerges at the vent screw without bubbles.

A WARNING

Fuel oil is highly inflammable. Stop the engine immediately if a fuel leak is suspected. Completely wipe off any spilt fuel which could cause a fire.

8-3-4-3_1

A WARNING

Hot oil and engine components can burn you. Make sure the engine is cool before doing this job. Bleeding a hot engine could cause fuel to spill on to a hot exhaust manifold creating a danger of fire.

13-3-1-16



Thank you very much for your reading.

Please click here to get more information.