

Engine - TDV6 3.0L Diesel - Engine Oil Draining and Filling

General Procedures

Draining

 **WARNING:** The spilling of hot engine oil is unavoidable during this procedure, care must be taken to prevent scalding.

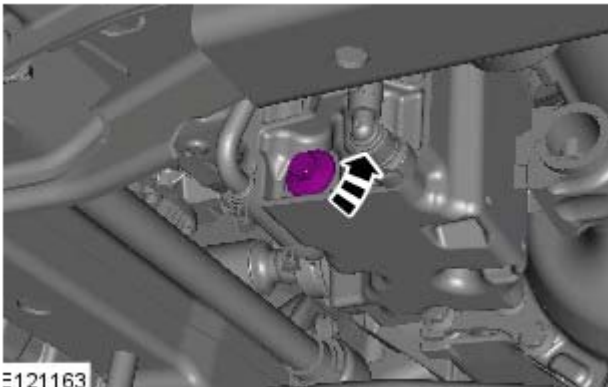
 **CAUTION:** Make sure the engine is warm.


1. Refer to: [Oil Filter Element](#) (303-01B Engine - TDV6 3.0L Diesel, Removal and Installation).

2.  **WARNING:** Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

3. Refer to: [Engine Undershield](#) (501-02 Front End Body Panels, Removal and Installation).



4.  **WARNING:** Observe due care when draining engine oil as the oil can be very hot.

• **CAUTIONS:**

 Be prepared to collect escaping oil.

 Discard the bolt.

 Allow at least 10 minutes for the engine oil to drain.

Drain the engine oil.

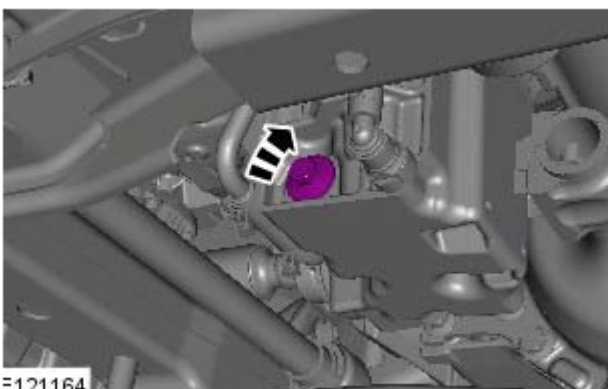
Filling

1. **5. CAUTIONS:**

 Make sure that the component is clean, free of foreign material and lubricant.

 Make sure that a new bolt is installed.

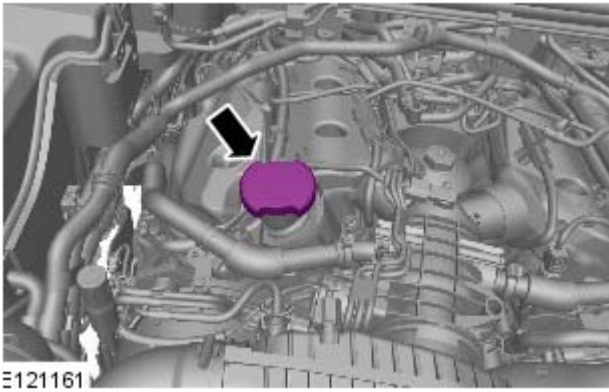
Torque: 23 Nm




2. Refer to: [Engine Undershield](#) (501-02 Front End Body Panels, Removal and Installation).

3. Lower the vehicle.

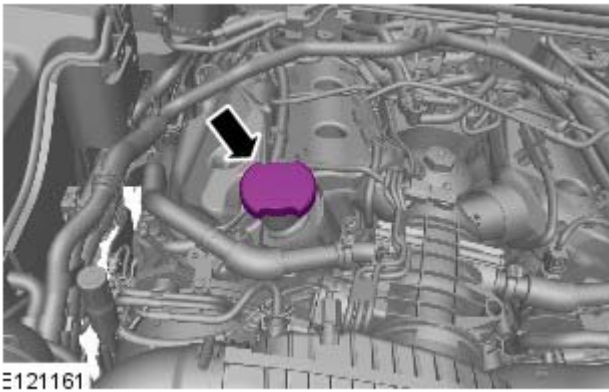
4. Refer to: [Oil Filter Element](#) (303-01B Engine - TDV6 3.0L Diesel, Removal and Installation).



5. Fill the engine with oil.

6. **10.**  **CAUTION:** Make sure that the vehicle is left for 5 minutes from filling with oil and that the engine oil level is reading at least minimum, before starting the engine. To check engine oil level follow steps 9-12.

Clean any residual engine oil from the oil filler cap area.



7.

- 8.
- Start the engine and allow to run for 10 minutes, stop the engine.
 - Check for leaks.

9. **13.** **CAUTIONS:**



Make sure that the vehicle is parked on level ground.



Make sure that the selector lever and the gearshift mechanism are in the park (P) position.



Make sure that the hood is open.

• **NOTE:** Allow 10 minutes from the engine switch off for the engine oil level to stabilize.

- Turn the ignition on.



10.

- Press the right-hand directional button to access the instrument cluster menu.



E123926



11.

- Press the right-hand OK button.

E123925



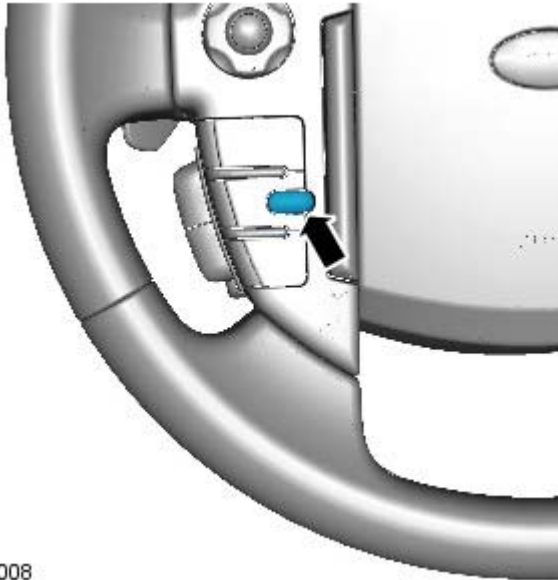
E123927

- 12.
- Press the right-hand directional button to access the Oil Level Display.



E123928

- 13.
- Press the right-hand OK button and follow the instructions.



E121008

14.

- Press the cruise control cancel button twice within 2 seconds.



15.

- The message center display will revert to the normal display in the trip computer.
- Press the right-hand OK button and follow the instructions.
- Check that the oil level display shows an oil level reading.
- Take a reading from the level display and, if necessary, top up with oil as instructed.



E123929

16. Turn the ignition off.

17. **21.** NOTE: Allow 10 minutes for the engine oil level to stabilize if there has been additional oil top up.

- Turn the ignition on.



18.

- Press the right-hand directional button to access the instrument cluster menu.



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19.

- Press the right-hand OK button.

E123925

20.

- Press the right-hand directional button to access the Oil Level Display.



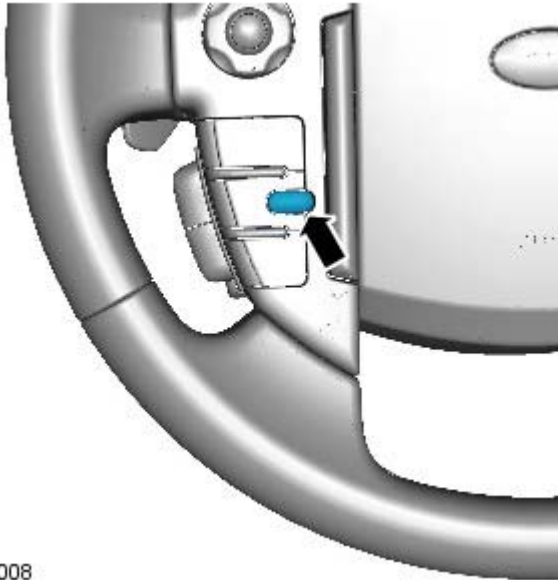
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21.

- Scroll through the trip menu to access the engine oil level display.



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22.

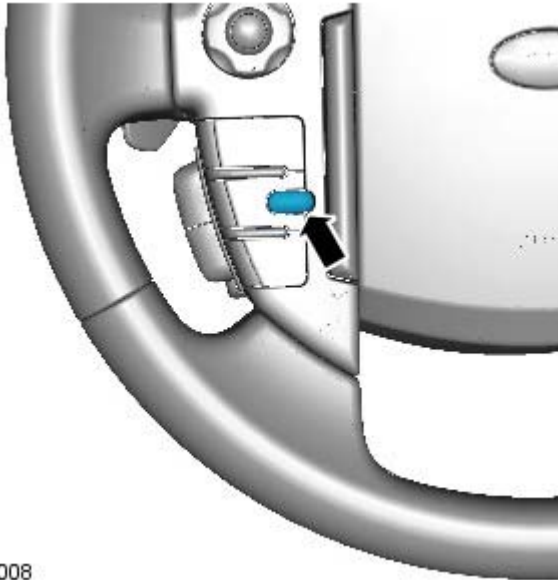
- Press the cruise control cancel button twice within 2 seconds.



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23. **27.** NOTE: Some variation in the illustrations may occur, but the essential information is always correct.

- The message center display will revert to the normal display in the trip computer.
- Scroll through the trip menu to access the engine oil level display.
- This display is now the live reading of the engine oil level.
- Take a reading from the level display and, if necessary, top up with oil as instructed.



E121008

24.

- Press and hold the cruise control cancel button for more than 2 seconds.

25.

- The message center display will revert to the normal display in the trip computer.

26. Turn the ignition off.

27. Turn the ignition on.

28. **32.** NOTE: Some variation in the illustrations may occur, but the essential information is always correct.

- Scroll through the trip menu to access the engine oil level display.
- Make sure that the average oil level value has now been updated.





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29. Refer to: [Engine Cover - TDV6 3.0L Diesel](#) (501-05 Interior Trim and Ornammentation, Removal and Installation).

Engine - TDV6 3.0L Diesel - Engine Oil Vacuum Draining and Filling

General Procedures

Special Tool(s)

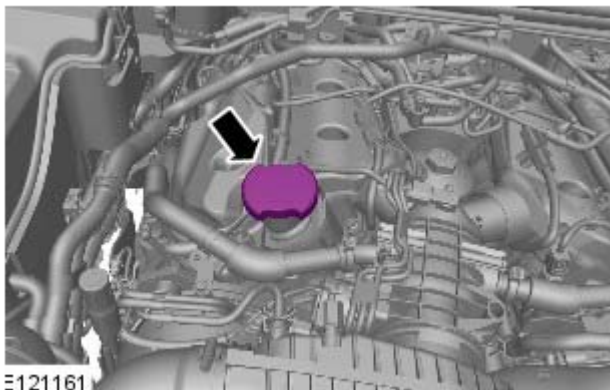
 <p>E129630</p>	<p>303-1484 Vacuum Pump, Oil Drain</p>
 <p>E129631</p>	<p>303-1484-01 Adapter for 303-1484</p>

Draining

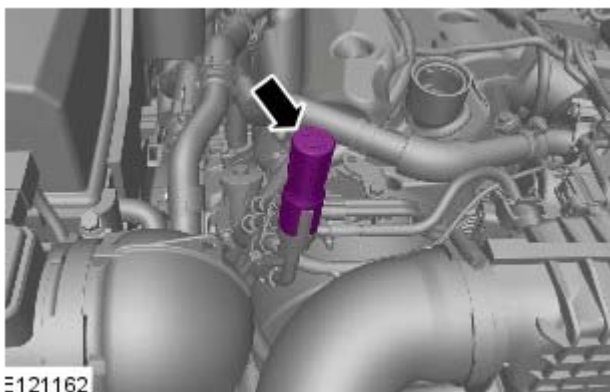
 **WARNING:** The spilling of hot engine oil is unavoidable during this procedure, care must be taken to prevent scalding.

- NOTE: Make sure that the vehicle is parked on level ground.
- NOTE: Clean the components general area prior to dismantling.

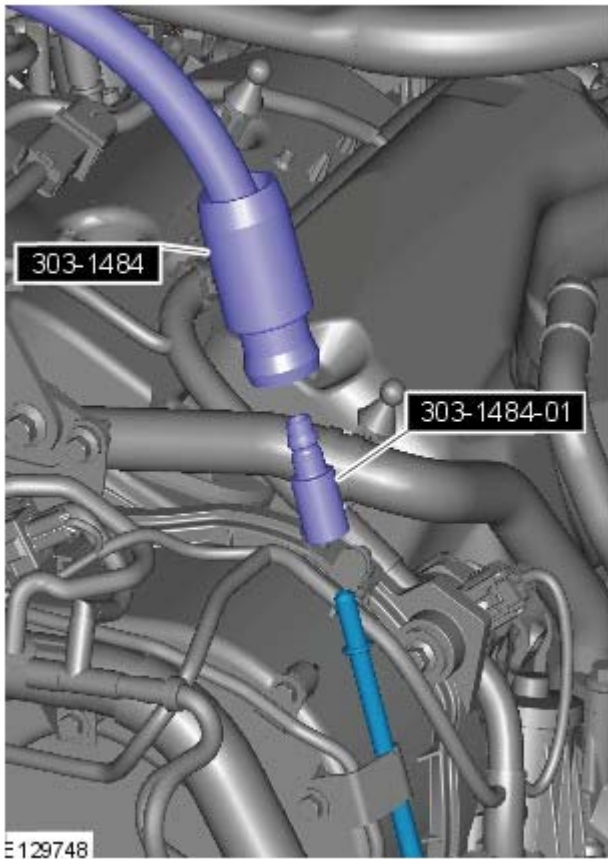
1. Refer to: [Oil Filter Element](#) (303-01B Engine - TDV6 3.0L Diesel, Removal and Installation).



2.



3.  **CAUTION:** Allow 10 minutes from turning the engine off before starting oil extraction.



4.

- Using the oil vacuum pump drain the oil out through the oil extraction tube.

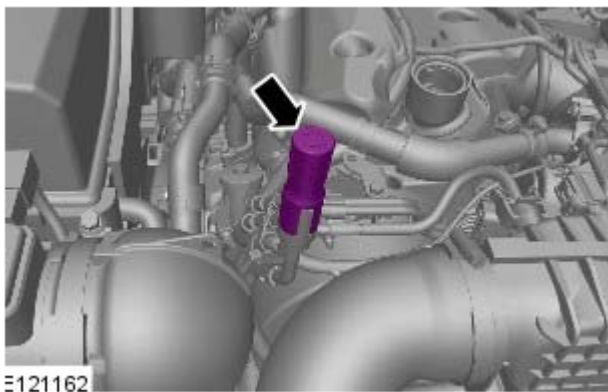
Special Tool(s): [303-1484](#), [303-1484-01](#)

5.

- Remove the oil vacuum pump.


Filling

1. Refer to: [Oil Filter Element](#) (303-01B Engine - TDV6 3.0L Diesel, Removal and Installation).

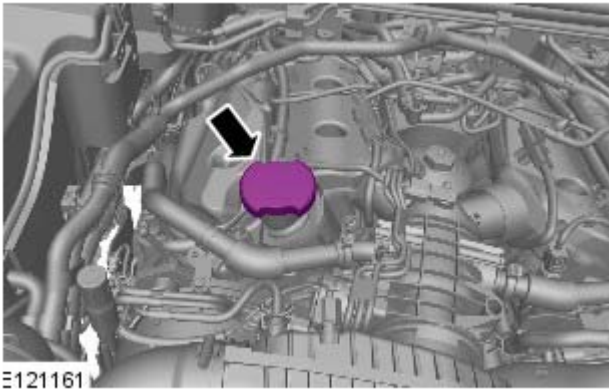



2.

3. Fill the engine with oil.

4. **9.**  **CAUTION:** Make sure that the vehicle is left for 5 minutes from filling with oil and that the engine oil level is reading at least minimum, before starting the engine. To check engine oil level follow steps 8-10.

Clean any residual engine oil from the oil filler cap area.



5. **10.**  **CAUTION:** Correct installation of the oil filler cap can be obtained by tightening the cap until an audible click is heard.

- 6.
- Start the engine and allow to run for 10 minutes, stop the engine.
 - Check for leaks.

7. **12.** **CAUTIONS:**



Make sure that the vehicle is parked on level ground.



Make sure that the selector lever and the gearshift mechanism are in the park (P) position.



Make sure that the hood is open.

• **NOTE:** Allow 10 minutes from the engine switch off for the engine oil level to stabilize.

- Turn the ignition on.

8.

- Press the right-hand directional button to access the instrument cluster menu.





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- 9.
- Press the right-hand OK button.



- 10.
- Press the right-hand directional button to access the Oil Level Display.



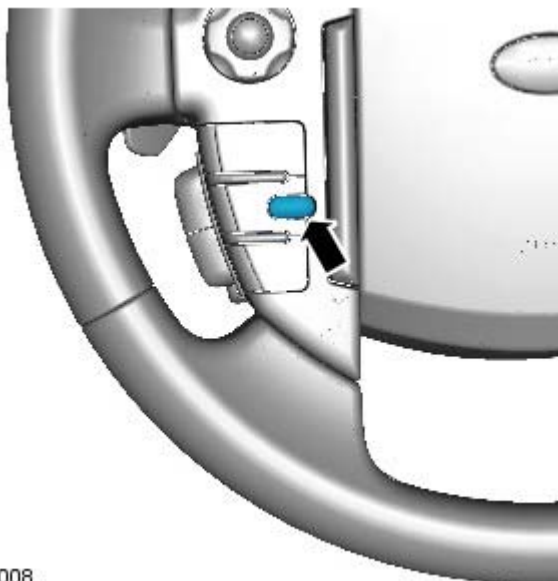
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E123928

11.

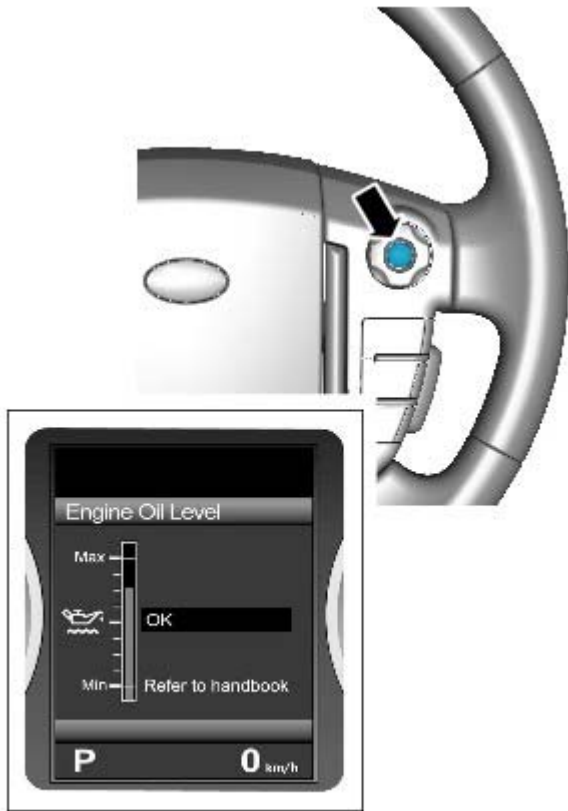
- Press the right-hand OK button and follow the instructions.



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12.

- Press the cruise control cancel button twice within 2 seconds.



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13.

- The message center display will revert to the normal display in the trip computer.
- Press the right-hand OK button and follow the instructions.
- Check that the oil level display shows an oil level reading.
- Only after having started and run the engine for 10 minutes, switch off the engine, then stabilizing for 10 minutes, take a reading from the oil level display and, if necessary top up with engine oil.

14. Turn the ignition off.

15. **20.** NOTE: Allow 10 minutes for the engine oil level to stabilize if there has been additional oil top up.

Turn the ignition on.

16.

- Press the right-hand directional button to access the instrument cluster menu.



E123926

17.

- Press the right-hand OK button.



E123925



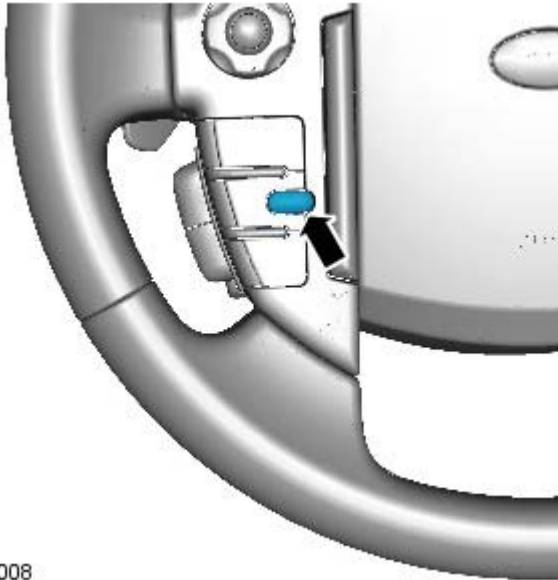
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- 18.
- Press the right-hand directional button to access the Oil Level Display.



E123928

- 19.
- Press the right-hand OK button and follow the instructions.



E121008

20.

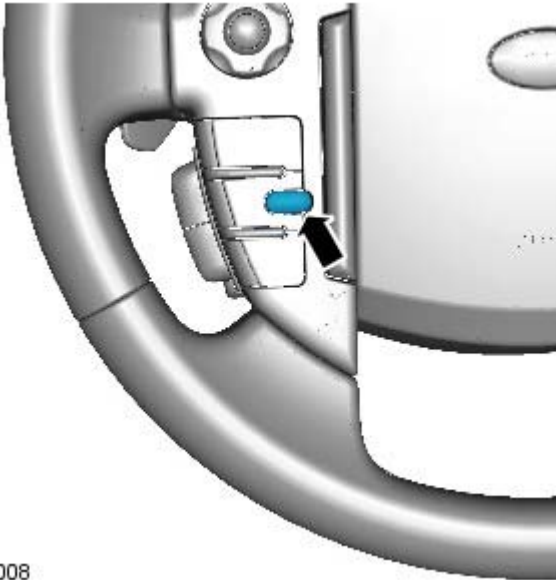
- Press and hold the cruise control cancel button for more than 2 seconds.



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21. **26.** NOTE: Some variation in the illustrations may occur, but the essential information is always correct.

- The message center display will revert to the normal display in the trip computer.
- Press the right-hand OK button and follow the instructions.
- This display is now the live reading of the engine oil level.
- Take a reading from the level display and, if necessary, top up with oil as instructed.



E121008

22.

- Press and hold the cruise control cancel button for more than 2 seconds.

23. The message center display will revert to the normal display in the trip computer.

24. Turn the ignition off.

25. Turn the ignition on.



26.

- Press the right-hand directional button to access the instrument cluster menu.



E123926



27.

- Press the right-hand OK button.

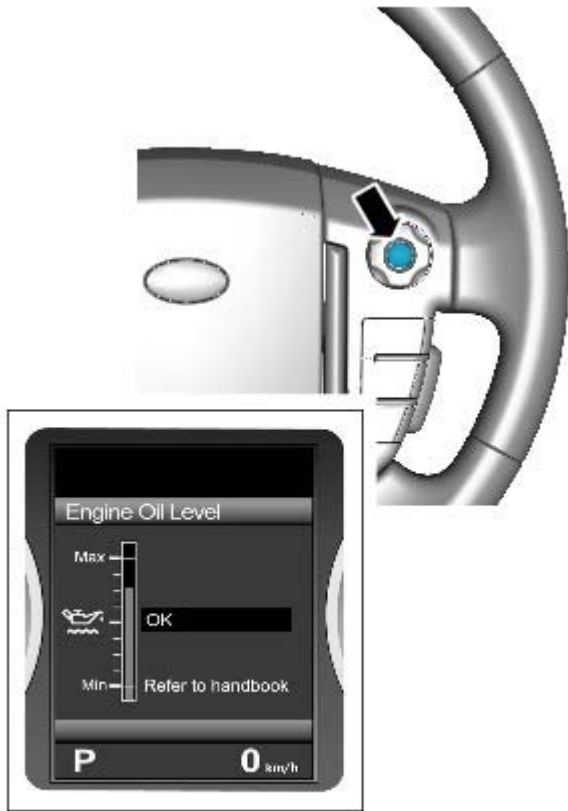


28.

- Press the right-hand directional button to access the Oil Level Display.



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E123929

29. **34.** NOTE: Some variation in the illustrations may occur, but the essential information is always correct.

- Press the right-hand OK button and follow the instructions.
- Make sure that the average oil level value has now been updated.

30. Refer to: [Engine Cover - TDV6 3.0L Diesel](#) (501-05 Interior Trim and Oramentation, Removal and Installation).