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| **Fluids filling information** |
| **KDI 1903TCR / KDI 1903TCRE5 Workshop manual (Rev. 17.8)** |



**Registration of modifications to the document**

Any modifications to this document must be registered by the drafting body, by completing the following table.

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|  | manoff |  |  |  |  |  |

**Translated from the original manual in Italian language**

Data reported in this issue can be modified at any time by KOHLER.

Sommario

[1. TITOLO 1 2](#_Toc495648770)

[1.1. Asdfsdfsdf 2](#_Toc495648771)

[1.2. Asdfsdfsdfggg 2](#_Toc495648772)

# Fluids filling information

## Engine oil

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| Z_importante.jpg  **Important**       * Before proceeding with operation, read  [**Par. 3.3.2**](https://iservice.lombardini.it/jsp/Template2/manuale.jsp?id=198&parent=1000) . |  |
| 1. Loosen the oil filler cap **A** or the oil filler cap **C** if the cap **A** is not accessible. 2. Add the type and amount of oil recommended ( [**Tab. 2.2**](https://iservice.lombardini.it/jsp/Template2/manuale.jsp?id=55&parent=1000) ). | 10.1.png **Fig 10.1** |
| 1. Remove the oil dipstick **B** and check that the level is up to but does not exceed the **MAX** . 2. If the oil level is not at **MAX** , insert more oil until the **MAX** level is reached as indicated on the dipstick. 3. Re-tighten the cap **A or C** .     **NOTE:** See the [**Par. 11.1**](https://iservice.lombardini.it/jsp/Template2/manuale.jsp?id=176&parent=1000) for the various configurations of the oil dipstick. | 10.2.png **Fig 10.2** |
| **NOTE** : Click by side to play the procedure. | <https://www.youtube.com/embed/cVpoy_m253A?showinfo=0&rel=0> |

## Coolant

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| --- | --- |
| Z_importante.jpg  **Important**       * Before proceeding with operation, read  [**Par. 3.3.2**](https://iservice.lombardini.it/jsp/Template2/manuale.jsp?id=198&parent=1000) . |  |
| 1. Tighten the cap **G** , replacing the copper gasket (Tightening torque of **50 Nm** ). | 10.3.png **Fig 10.3** |
| **NOTE:** A sealing plug or connecting pipe to the expansion tank may be present on the junction **B** , both should be secured with a strap.   1. Reinsert on the junction **B** the sealing plug or a connecting pipe to the expansion tank. | 10.4.png **Fig 10.4** |
| Z_Avvertenza.jpg **Warning**     * Presence of steam pressurized coolant danger of burns.  1. Refill the radiator with coolant (refer to [**Par. 2.6**](https://iservice.lombardini.it/jsp/Template2/manuale.jsp?id=195&parent=1000) for the liquid specifications). 2. Top liquid up until the pipes inside the radiator are covered by about 5 mm. 3. For engines equipped with separate expansion tank, pour in fluid until reaching the max level mark. 4. Loosen the screw **F** on the head **H** , release any air and tighten the screw **F** (Tightening torque of **8 Nm - Fig. 10.7** ). 5. Start the engine without the radiator cap A or the expansion tank **(C)** cap **B.** 6. Keep the engine at idle speed or without a load until the coolant level goes down and becomes steady (the waiting times varies according to the ambient temperature). 7. Turn off the engine and allow it to cool. 8. If there is an expansion tank **(C)** top liquid up to the mark **MAX** . 9. Without expansion tank top liquid up until the pipes inside the radiator are covered by 5 mm. Do not overfill the radiator, but leave room for the coolant to expand. 10. Tighten the radiator cap A or the expansion tank **(C)** cap **B.**         Z_Avvertenza.jpg **Warning**       * Before starting make sure that the radiator cap and expansion tank cap, if present, are installed correctly to avoid loss of liquid or vapour at high temperatures.  1. After a few hours of operation stop the engine and allow it to cool. Check and top up the coolant. | 10.5.png **Fig 10.5**imm10.6.jpg **Fig 10.6** |
| 10.7.png  **Fig. 10.7** | |
| **NOTE** : Click by side to play the procedure. | <https://www.youtube.com/embed/S79xPhTZMps?showinfo=0&rel=0> |

