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| **Information regarding discharge of liquids** |
| **KDI 1903TCR / KDI 1903TCRE5 Workshop manual (Rev. 17.8)** |



**Registration of modifications to the document**

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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

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# Information regarding discharge of liquids

## 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) .

**NOTE:** Component not necessarily supplied by **KOHLER** . The representation of the radiator is purely indicative. Z_Avvertenza.jpg **Warning**  * Presence of steam pressurized coolant danger of burns.

 1. Undo the cap **A** carefully (circuit under pressure).
 | 5.1.png**Fig 5.1** |
| 1. Loosen clamp **G** and remove cap **B** from exhaust pipe **C** , draining the liquid into an appropriate container and refer to ( [**Par. 3.6**](https://iservice.lombardini.it/jsp/Template2/manuale.jsp?id=203&parent=1000) ).
 | 5.2.png**Fig 5.2** |
| 1. Undo cap **F** to drain all liquid from the system contained in the engine crankcase ducts into an appropriate container and refer to ( [**Par. 3.6**](https://iservice.lombardini.it/jsp/Template2/manuale.jsp?id=203&parent=1000) ).
 | 5.3.png**Fig 5.3**5.4.png **Fig 5.4** |
|   **NOTE** : Click by side to play the procedure. | <https://www.youtube.com/embed/_s_qNZuOqQU?rel=0> |

## Engine oil

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| --- | --- |
| Z_Avvertenza.jpg **Important**  * Before proceeding with operation, read  [**Par. 3.3.2**](https://iservice.lombardini.it/jsp/Template2/manuale.jsp?id=198&parent=1000) .
* This operation should be carried out with vacuum pump. The oil must be drained whilst the engine is hot, which requires particular care to prevent burns. Do not allow oil to come into contact with the skin because of the health hazards involved. It is recommended to use an oil intake pump via the oil dipstick hole **B.**
* Electric/pneumatic screwdrivers are forbidden.

 1. Undo the cartridge holder cover **C** by performing three complete turns and wait 1 minute.

**NOTE** : this operation will allow to oil contained in the support **G** to flow into the oil sump in the correct way.1. Unscrew cartridge holder cover **C** and check that the oil in the lub. oil filter bracket **G** has flowed towards the oil sump (refer to **NOTE** in [**Par. 2.10.3**](https://iservice.lombardini.it/jsp/Template2/manuale.jsp?id=104&parent=1000) ).
2. Undo the oil filler cap **A (Fig. 5.5)** .
3. Remove the oil dipstick **B** .
4. Remove the oil drain plug **D** and the gasket **E** (the oil drain plug is on both sides of the oil sump).
5. Drain oil in to an appropriate container.(For used oil disposal refer to the [**Par. 3.6**](https://iservice.lombardini.it/jsp/Template2/manuale.jsp?id=203&parent=1000) ).
6. Replace gasket **E** .
7. Tighten the drain oil plug **D** (tightening torque at **35** **Nm** ).
8. Perform the operations described in [**Par. 6.10.2**](https://iservice.lombardini.it/jsp/Template2/manuale.jsp?id=132&parent=1000) and the operation 5 [**Par. 6.10.3.**](https://iservice.lombardini.it/jsp/Template2/manuale.jsp?id=132&parent=1000)
 | 5.4.jpg  **Fig 5.5**5.6.png**Fig 5.6** |
|   **NOTE** : Click by side to play the procedure. | <https://www.youtube.com/embed/7T2NNBQqPpU?rel=0> |

