

MWM 4.1 TCA FITTINGS

Date of issue:	07/07/2026	Issue revision:	A
Prepared for:	Industry/End Users		
Applicable machine(s):	MineCruiser / Grader / Predators installed with MWM 4.1 TCA. Select repowered machines MDR 114056 DES		
Part number(s):	• 7-053993-700 Flange Hose Connection MWM4.10Tca • 7-187322-705 Hose tail fitting • 7-187601-707 Swept 90 degree elbow • 7-187109-711 M22 Nipple 7-194399-700 (complete Kit as above)		
Impact Area	☒ Operations ☒ Maintenance ☒ Spare Parts ☒ Inventory		

Background:

Over the history of the MWM 4.1 TCA engine, there has been some variation in oil circuit drain fittings, particularly for the return fittings into the engine sump. Although most fitting arrangements have been adequate, recent updates to drain fittings arrangement have been made to optimize oil flow and reduce back pressure in the oil circuit.

Communication:

A new turbo drain fitting arrangement improves the longevity of the turbo cartridge by reducing backpressure and preventing oil flow 'backing up' into the turbo centre cavity when oil flows are high.

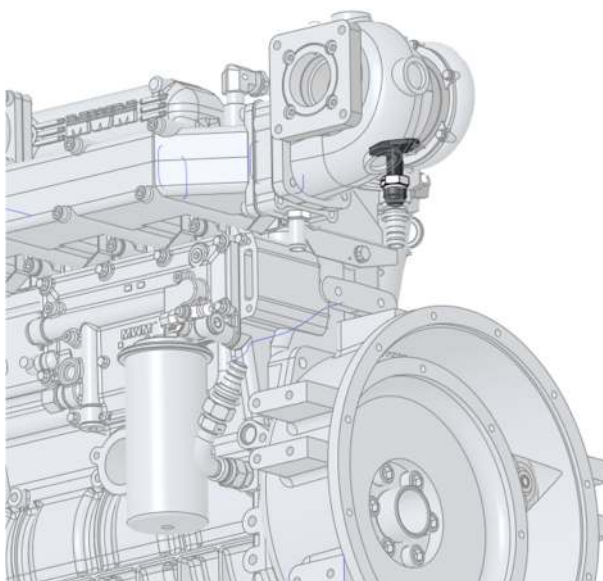


Figure 1: Turbo drain pipe: 7-053993-700

The turbo drainpipe (1) and associated hose fitting onto the turbo (2a) has been revised for a larger internal diameter (-17 JIC). The return fittings to engine block now consist of a swept elbow (2b) with larger nipple size (2c) , and consequently a larger hose tail.

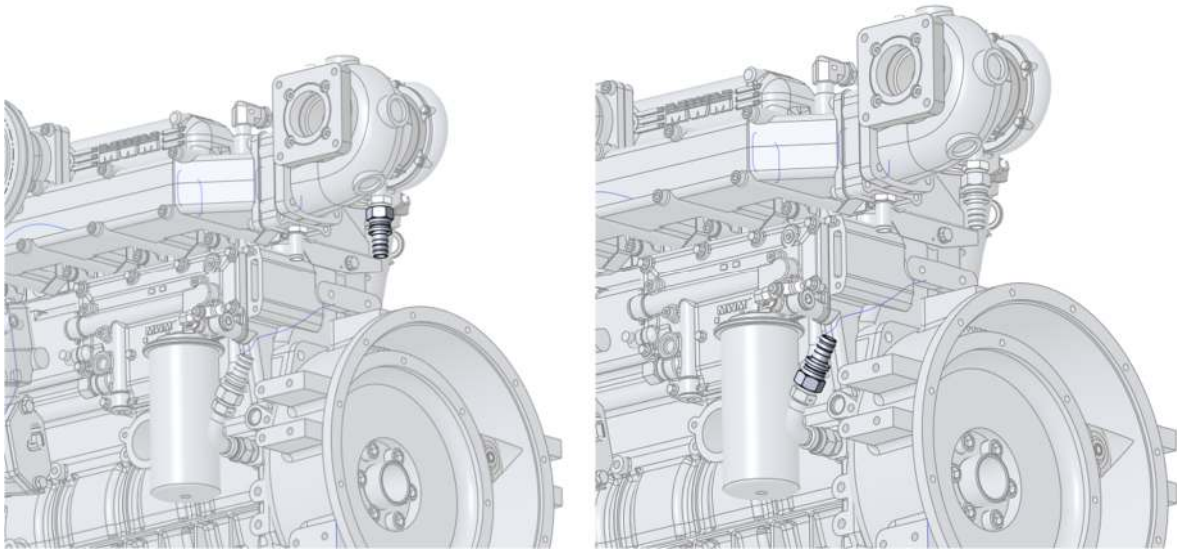


Figure 2a & 2b: Hose tail fitting 7-187322-705 17 JIC

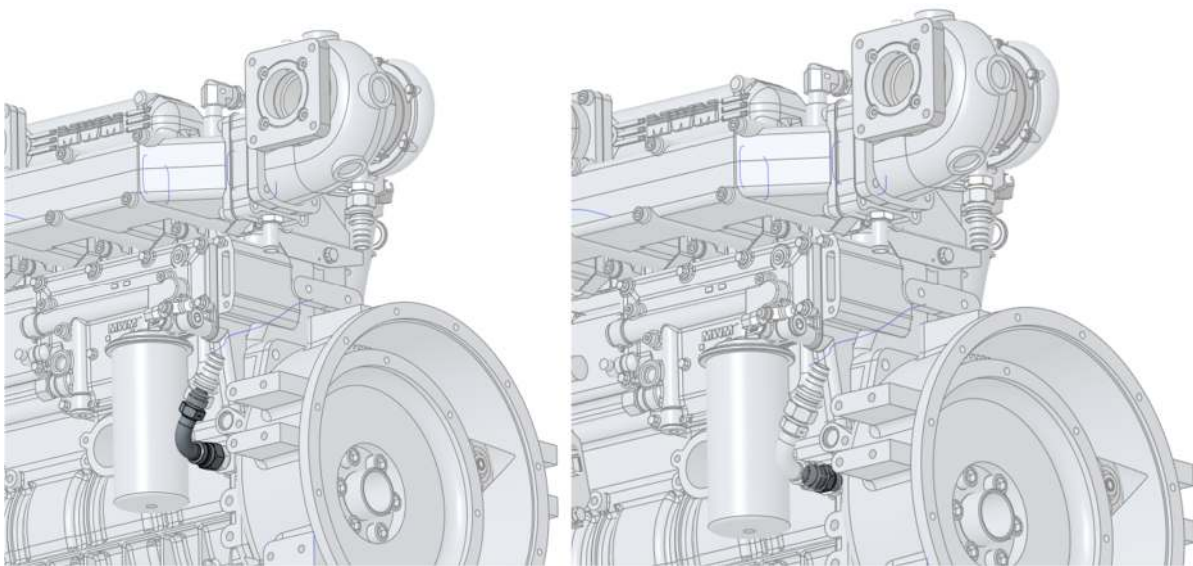


Figure 2b: Swept Elbow 7-187601-707

Figure 2c: Male JIC fitting to engine Block 7-187109-711

This arrangement accommodates $\frac{3}{4}$ " push on hose.

The kit containing the fittings, turbo drain pipe and 1 metre of hose is identified as part number 7-194399-700. Orders may be requested through the spare parts team

orders.AME@cougar.au

For customers wanting to use crimped hose, please contact Cougar representatives below.

Recommendations

- Turbo drain circuit fittings and hoses should be reviewed at regular intervals for damage, security and integrity.
- It is recommended to upgrade to the larger internal diameter fittings as outlined in this bulletin to improve turbo cartridge life at the next service opportunity.

Please distribute this bulletin to all relevant personnel

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Disclaimer:

The information provided in this technical bulletin is provided as general information only and is based on the most current information at the time of publication. Installation must be performed in accordance with maintenance procedures by qualified personnel. Use of non-approved parts will affect regulatory compliance and may result in vehicle damage or personal injury. No additional warranties, express or implied, are provided.