

Service Information

Caterpillar Motoren GmbH & Co. KG product support information for medium-speed engines

Engine platform: M32
Engine section: Exhaust gas

Engine type: M 32E/ M34 DF
Validity: until further notice

No. 0011M32 • Issue 1; February 27, 2020

Information for all engine

Action: at next opportunity



owners / managers / engine operators

Exhaust gas cladding M32 E/ M34 DF

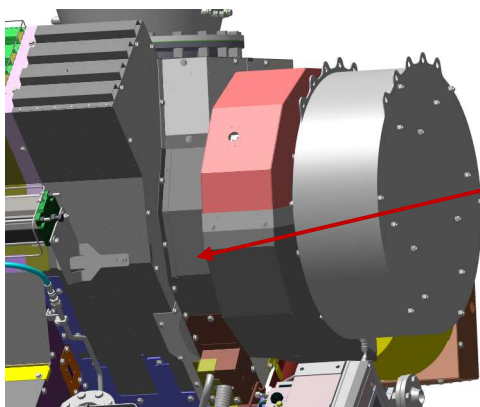
Reports from engines in service has made us aware that there are two pieces of sheet metal on the exhaust cladding where the fixing clamps tend to fail, sometimes after short operating hours. The respective metal sheets can then rub on the turbine housing and damage the housing as well as bolts on the turbine. The area was reviewed in detail and it was determined that both plates are not necessary for the structural integrity of the exhaust cladding and that they have no influence on the compliance with SOLAS regulations (surface temperatures < 220°C).

To avoid damages to the turbine housing and bolts, we therefore recommend removing these two plates of the exhaust cladding.

Depending on the engine drive end the following steps need to be taken in order to remove them:

For engine with the turbocharger installation on the non-drive end

Step 1: Removal of cover plates per sketch 1 and 2



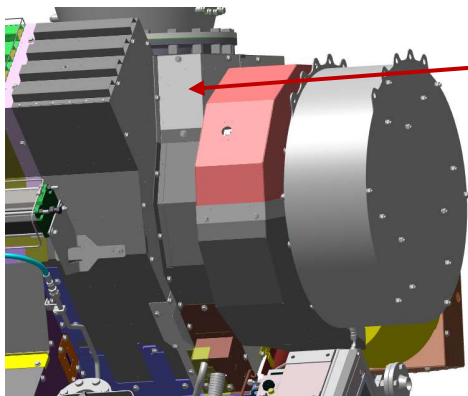
Removing of cover plates

Sketch 1



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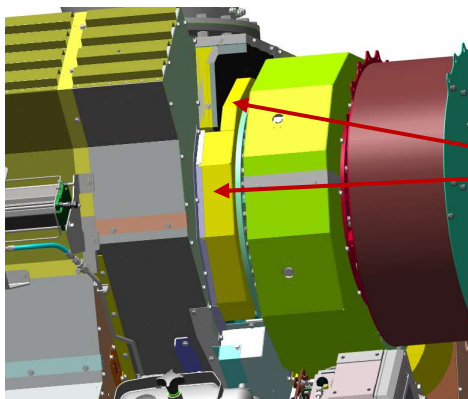




If necessary: removal of upper cover

Sketch 2

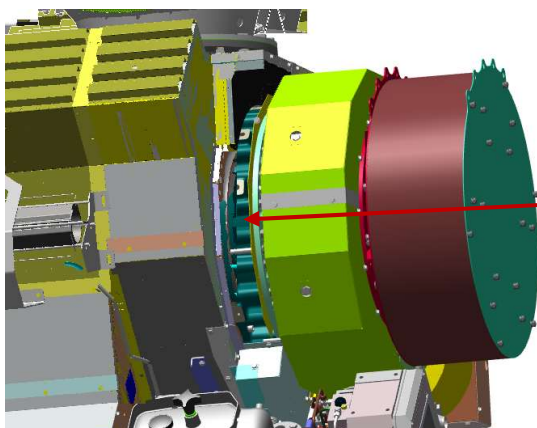
Step 2: Removing of concerned plates per sketch 3



Remove both plates

Sketch 3

Step 3: Inspection of turbine housing and bolted connections for potential damages



After removal of the concerned plates, the turbine housing must be visible.

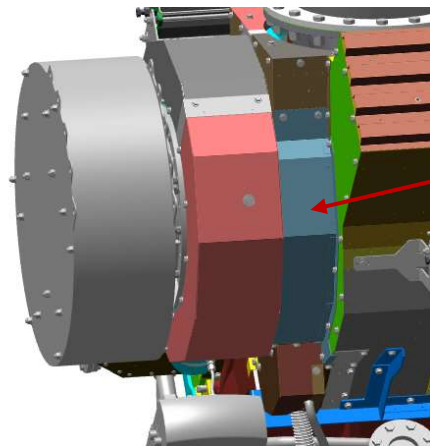
Check turbine housing and bolts for damages. In case bolts are damaged, they must be exchanged.

Sketch 4

Step 4: Re-install cover plates that were removed at step 1

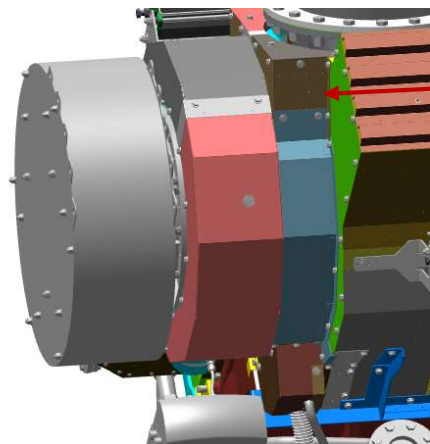
For engine with the turbocharger installation on the driven end.

Step 1: Removal of cover plates per sketch 5 and 6



Sketch 5

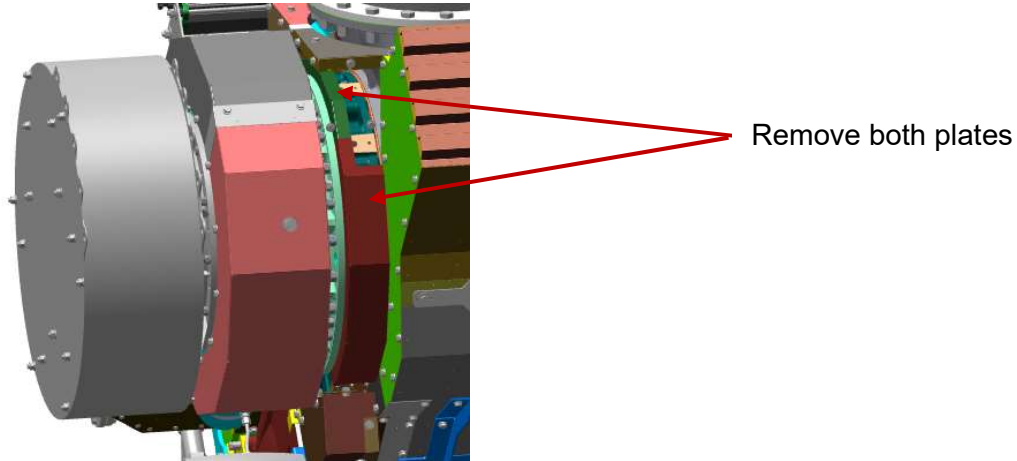
Removing of cover plates



Sketch 6

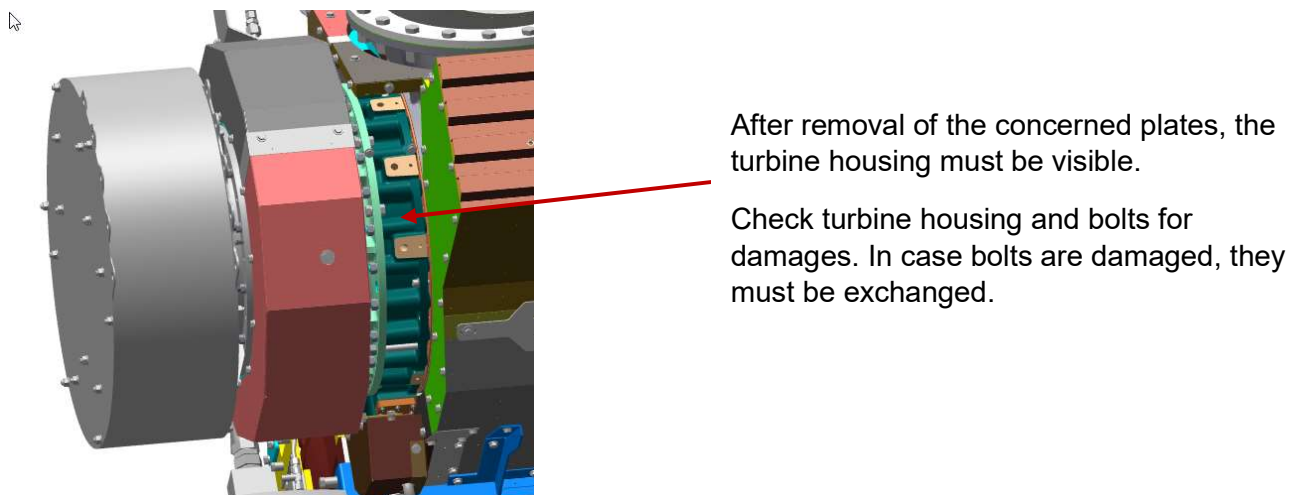
If necessary:
removal of upper

Step 2: Removing of concerned plates per sketch 7



Sketch 7

Step 3: Inspection of turbine housing and bolted connections for potential damages (see sketch 8)



Sketch 8

Step 4: Re-install cover plates that were removed at step 1

In cases the turbine housing or bolts have been damaged by the concerned metal sheets, please contact an authorized MaK/CM service provider to have the condition assessed. Possible further actions will be determined based on that assessment.