

Service Information No. 02 / 06

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TPL 73 and TPL 77 turbocharger mounting foot screws

M 43

In order to achieve good thermodynamic conditions the turbocharger of the engine is to be supplied with a very big amount of air. Therefore, it is required to admit ambient air directly to the turbocharger by means of sufficiently dimensioned fans and via an air duct.

In the past we received sporadic reports of TPL 73 and TPL 77 turbochargers being affected by fracture of a mounting foot screw for fastening on the foundation. The broken screw was always the one opposite the governor.

Investigations into the root cause of the damage have shown that the notching effect attributable to corrosion attacks above the thread had led to vibration fatigue fracture. The corrosion may have been the consequence of condensate forming in the hole of the turbocharger mounting foot caused by the above mentioned admission of relatively cold ambient air.

We, therefore, recommend a regular weekly check of this screw by the crew on board. If the screw should be found to be broken, the voyage can be continued until reaching the next port, where a new screw has to be fitted. Please inform your responsible dealer who has the special tools to carry out this repair.

As a preventive measure we recommend to replace this screw.

Prior to fitting a replacement screw its shank should be properly coated with anticorrosive paint and it should be screwed in while the paint is still wet. You can order the screw from your dealer under catalogue numbers: 437250-18 or 437250-68.

The tightening value for the screws is 750 Nm plus 30° torque angle for the M30 screw (**for TPL 77**) and 640 Nm for the M24 screw (**for TPL 73**). In both cases thread and contact face are to be coated with Molykote. If you do not have an appropriate torque wrench available on board we recommend to call upon your responsible dealer to carry out this job as well.

