

Service Information No. 06 / 03

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Cooling Water Pump – New Impeller Fixing

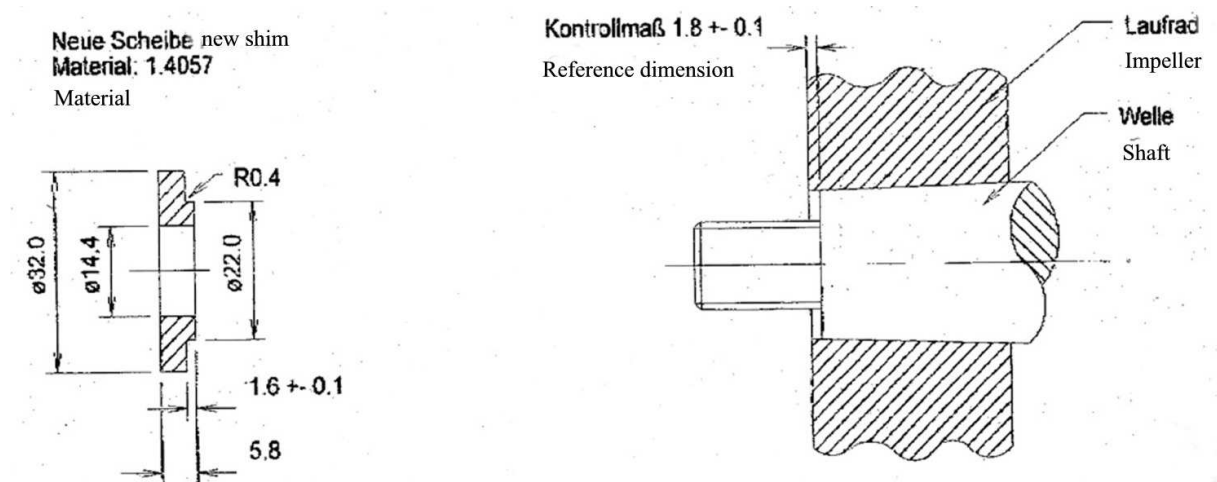
M20

The design of the M20 cooling water pump has been continuously improved in the past. Recently, in isolated cases the state-of-the-art cooling water pumps unfortunately suffered premature failures caused by loose impellers.

In an intensive cooperation with the supplier we continued to improve the impeller fixing in order to warrant the reliability of the cooling water pump. Affected are only cooling water pumps as from serial number 57370. All pumps as from serial number 60708 are already being delivered with the appropriate modification as a standard.

We recommend to modify the impeller fixing on all cooling water pumps as from serial number 57370 up to number 60708 at the next opportunity. This modification can be carried out by the crew at site with minor efforts. Please find the shim required for this job enclosed to this information.

The details of the new assembly/disassembly method are described as follows:



- Assembly:
1. Heat impeller up (max. 200°C) and slide it on the shaft (reference dimension 1.8 ± 0.1 mm).
 2. Mount the shim. (Recess shows into the direction of the impeller).
 3. Tighten nut with 90 Nm and lock with the 2nd nut (secure with Loctite).

Disassembly new:

1. Loosen the nut.
 2. Remove the shim.
 3. Heat impeller up (max. 200°C) and loosen from the shaft using the extractor.
- Attention: Impeller and extractor might jump off.