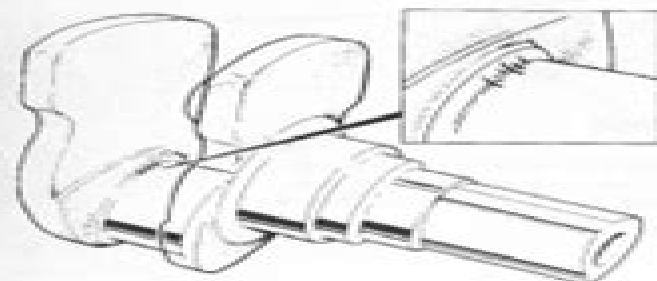


**B. Checking for cracks**

Checking must be carried out after alignment and before and after grinding.

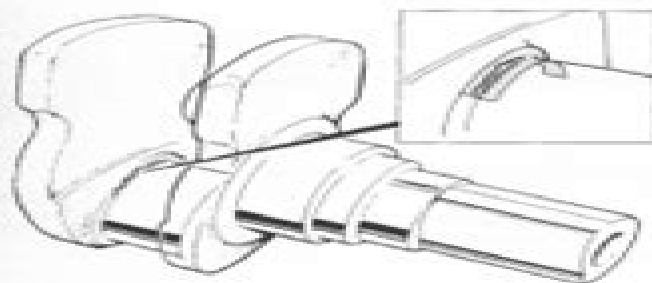
To check, use a magnetic powder test, for example Magnaglo, i.e. fluorescent powder which can be seen under ultra-violet light.

Refer to manufacturer's instructions on the method to be adopted. When assessing the cracks, the following applies:

**1**

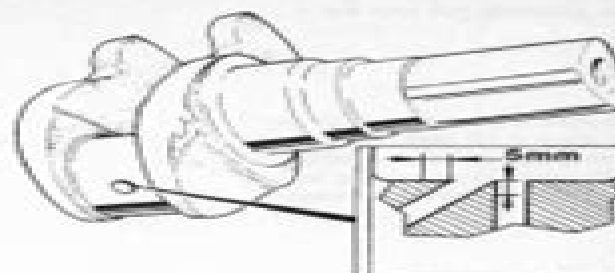
TOLERANCE

The shaft must be scrapped if there are longitudinal cracks on the journals and in the fillets.

**2**

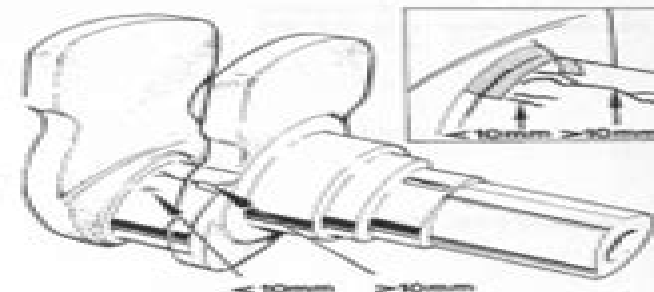
TOLERANCE

The shaft must be scrapped if there are crosswise cracks within the marked zone. This applies to both big-end and main bearing journals.

**3**

TOLERANCE

The shaft must be scrapped when cracks longer than 5 mm are adjacent to the area around the oil holes. Cracks shorter than 5 mm can be removed by grinding.

**4**

&lt; 10mm &gt; 10mm

TOLERANCE

The shaft must be scrapped when cracks are longer than 10 mm outside the marked area. Isolated cracks less than 10 mm are acceptable.

**Overhauling**

When overhauling, keep to the following routines:

**1**

Inspection according to points A - D

**2**

Grinding to undersize according to the specifications.

When grinding, it is important that the fillet radii are within the specified tolerances.

**Note:** When grinding the middle main bearing pin, measurement "A" requires special attention, refer to the specifications under "Width, axial bearing journal".

# D16a Engine Manual Guide

**General Motors Corporation. Cleveland  
Diesel Engine Division**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the text box.

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