

# SERVICE TECHNICIANS INSTRUCTION |

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## Main Bearings' Replacement - Type 6C

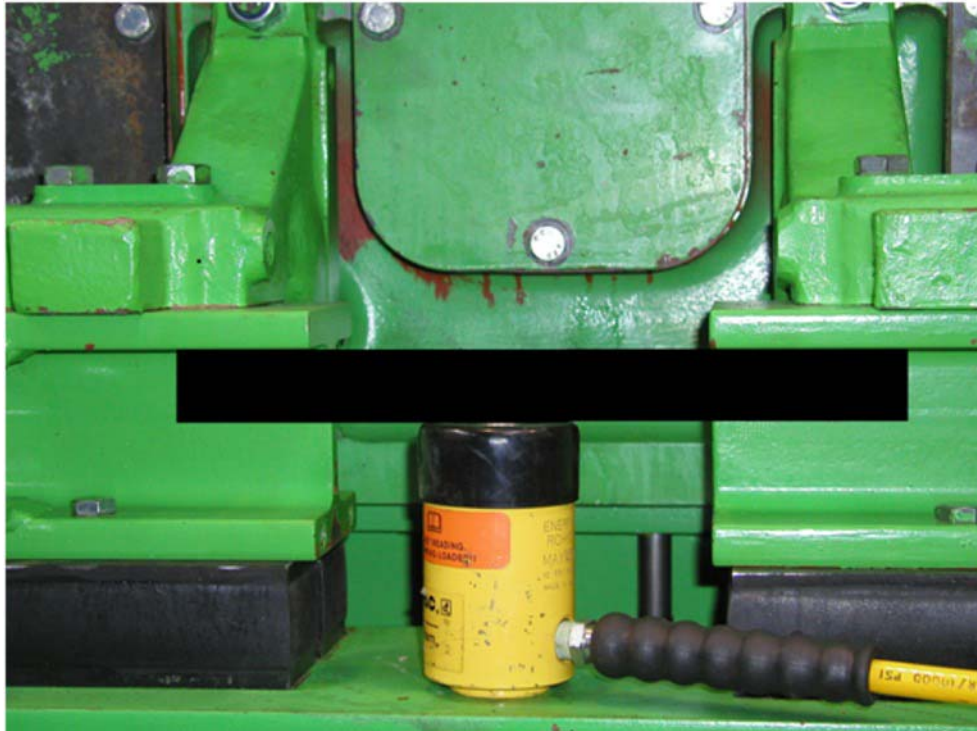
At the type 6C engine it is not possible to undo the tie-rod screws without altering the engine mounting. Therefore, it is also not possible to replace a main bearing without altering the engine mounting. Beside this, it is recommended that the oil pan is lowered in order to have better access to the main bearings screws. For main bearing 9 (7 for J612) this is actually essential.

### 1. Lifting the engine

Lifting is best done by means of a hydraulic jack (12t) which is already available in the type 6 set for dismantling the liners.



All the screws between the engine feet and the I-beam and between the I-beam and the rubber rails are to be removed. The engine is to be lifted by means of hydraulics and inserted thick steel plate or U-iron. The rubber rails are to be removed from one of the raised engine feet. After this, the engine can be lowered again, the I-beam removed from this engine foot, and the hydraulic jack placed under this point.



After the engine is again lifted (directly under an engine foot) the rubbers and the I-beam can be taken out and turned off as shown in the following illustration.



This entire procedure now has to be repeated on the other side of the engine.

**Throughout the work, care must be taken that the engine is always standing safely and that support is always inserted in sufficient places so that falling over of the engine or crushing of hands is not possible even if the hydraulics fail.**

## **2. Lowering the oil pan**

Remove the 4 easily accessible oil pan screws (roughly at the 4 corners of the oil pan) and replace with M12 x 160 mm threaded rods + nuts.

Completely empty the oil pan. Unscrew the oil line to the oil pump at the oil pan. Unscrew the oil emptying line below the oil line and then screw out the threaded elbow joint from the oil pan.

Remove all oil pan screws and lower the oil pan using the threaded rods. It is best to lift the oil pan supported on the frame by means of turning rods, lower the nuts 2-3 cm by hand and lower the oil pan down. Repeat this at all corners until the oil pan is lowered enough (about 12 cm).



**Now there is nothing to obstruct the replacement of the main bearing. Please pay attention to safety!**

**Caution: For HL9 (HL7 for J612) longer spacer rings and nuts are needed**

**Other special tools: Torque spanner (3/4") up to 800Nm + Long extension (3/4") + 19 mm Allen socket (3/4")**