

USER: Carrying Firm

**DESCRIPTION OF THE PROBLEM:** The Diesel engine block, propelling the air compressor, cracked as a result of the water freezing. There was detected the main crack of the length of ca. 40 cm and three smaller cracks of the length of ca. 4 cm towards the engine head.

**DESCRIPTION OF THE REPAIR:** All cracks were cleaned along 4 cm at each side with the help of a grinder, made rough, and then degreased with the help of **Chester Cleaner**. Holes were drilled at the ends of the cracks, with the diameter of 3.5 mm. **Chester Metal Super** was applied on the surface prepared in such a way forming a layer of 2mm thick and there were applied the so-called 2 mm thick layers of steel sheets. The sheets were cleaned, defatted with **Chester Cleaner** and there was applied a layer of **Chester Metal Super**. Everything was covered with **Chester Metal Super**.

**ACHIEVED EFFECTS:** Previous welding attempts did not result in positive effects. The cost of the repair did not exceed 5% of the purchase and renovation of a new block. The stoppage of the compressor lasted ca. 24 hours.

