

USER: Construction Company,  
Brick Plant

**DESCRIPTION OF THE PROBLEM:** The block of the engine of KAMAZ truck cracked and there appeared a leakage of the cooling water (under the exhaust collector). A previous repair included a welding of a steel sheet between the ridges of the body and a supplementation, sticking of fragments of the lack with an unknown material. The "patch" was not water tight as a whole.

**DESCRIPTION OF THE REPAIR:** The old "adhesive" was burnt out with an acetylene blowpipe, and the body with the plate was carefully degreased with **Chester Cleaner** several times. In spite of taking the water out of the cooler, there appeared a problem of a constant, but small leakage from the crack. The whole place with its surrounding area was polished with corundum shields and cutters. The system and the crack was finally dried by means of a repeated heating and polishing of the cooling water circulation chambers. There was made the final degreasing and there was applied **Chester Metal Super** strengthened with a knitted net of the mesh of 2-3 mm. All the application was smoothed with a wet hand.

**ACHIEVED EFFECTS:** The repair entailing the welding did not assure the water tightness. Regeneration with materials made by Chester Molecular, conducted very carefully, gave the desired effect. In the case of permanent leaks of a liquid through a crack, we recommend to use capillary adhesives (also made by Chester Molecular) with an earlier, at least temporary elimination of the humidity by means of drying or with blows of compressed air.

