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Rexroth

Brueninghaus Hydromatik GmbH • 89070 Ulm

Brueninghaus Hydromatik

American Chemical Techn. Inc.
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Eichingen 2001-03-14

Fire resistant fluid Ecosafe FR 46

Dear Mr. Kovanda,

We made an endurance test for more than 1100 hours with Ecosafe fluid FR 46 (see our test report No. 3178 EE 268). As test units, we used axial piston pumps, type AA20VG 45 and AA10VO 45, as well as an aluminium gear pump size 14 from Rexroth.

Before and after the endurance test, the main pump AA20VG 45 was measured in detail. After the endurance test, the pump was in perfect condition. Efficiencies improved slightly because of the "run-in effect". Disassembly and visual inspection of all pumps showed that all parts are in good condition.

During the endurance test, several oil samples were taken. At the begin of testing, the cleanliness value was ISO 22/20/15 and at the end of testing, it was ISO 21/18/10. During testing, the TAN (total acid number) increased slightly from 0.3385 to 0.4627.

To sum up, one may say that the endurance test showed that function and operation safely of our units can be guaranteed when Ecosafe fluid FR 46 is used.

Because of this good result and other good results from the field, the Ecosafe fluids FR 46 and 68 can be released for use in units from Brueninghaus Hydromatik.

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