



Agricultural Journals

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Res. Agr. Ei

**Drabant Š., Ko
Jablonický J.,**

The durability

tractor hydrostatic pump type UD under operation

Res. Agr. Eng., 56 (2010)

The results of the UD 25 h pump durability test are presented were obtained in the laboratory operating load. The test of was a continuation of the h pump durability test with a loading according to the n 9287. It lasted 300 hours, 2° C of hydraulic fluid temperature. The aim of the test was to simulate operation of the hydrostatic load in laboratory and to find deterioration and the influence of biodegradable fluid on its efficiency. The achieved results confirmed the efficiency of the UD 25 hydrostatic pump decreased only to 3.6% with its good technical state even after 300 hours of performance. Meanwhile it was found that the used ecological hydraulic fluid on the basis of a vegetable oil is "Environmentally responsive".