



# Agricultural Journals

*Research in*

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# Res. Agr. Eng.

**Tkáč Z., Majdan R.,  
Drabant Š., Jablonický  
J., Abrahám R., Cvíčelá  
P.:**

# The accelerated laboratory test of biodegradable fluid type "ertto"

Res. Agr. Eng., 56 (2010): 18-25

The accelerated laboratory tests can evaluate the properties of new biodegradable fluids under relatively short time. These test results are the ground for the continuity of the tests under operation conditions in machine. The paper presents the test of new biodegradable hydraulic fluid type "Environmentally responsible tractor transmission oil" by designed special test device. The test evaluation was realized by technical state of concrete hydrostatic pump UD 25 which is used in tractors Zetor Forterra. This pump was loaded by cyclic pressure loading during the test with tested fluid. The evaluated parameter was flow efficiency of hydrostatic pump which reached the value 7.3% after the test. The reached value hints a high quality of the tested fluid (the limit value per