

REPORT

on reconditioning the hydrostation BEAVER III manufactured by the firm JSB
and installed at the JSC AKRONTO

December 6, 2000

City of Tallinn

Description	Hydrostation pressure	
	Prior to treatment	After treatment
Rated pressure of hydrostation should be 138 bar	100 bar	120 bar

The flow was not monitored due to absence of measuring devices.

The volume of hydraulic oil in the hydrostation's system is 7 liters. The treatment was carried out at the site of the firm AKRONTO with three 9-ml tubes containing gel for reconditioning the hydraulic system. Treatment was carried out as per the XADO technology of reconditioning mechanisms in three stages after 8 hours of operation of the mechanism. The working load was represented by a water pump with a hydraulic drive, whose capacity, by the readings of the working pressure gauge at the initial moment of treating, was 0 bar. The pump, however, pumped water, though failed to build up pressure required for operation. In 8 hours after applying the additive to the hydrostation system, the pump's working pressure increased to 0.5 bar; and after applying the second tube, this pressure increased to 1 bar. The hydrostation working pressure was measured after 24 hours of operation of the hydrostation under the given conditions, and it increased to 120 bar to be 87 % of the rated value. After this, observation was stopped and the hydrostation was transferred to the facility for further service.

The treatment carried out obviously demonstrates all the advantages of the XADO technology as compared to conventional repair methods as to both economic indicators (the cost of reconditioning the given hydrostation was 750 Estonian kronas) and to that the mechanism was practically not stopped, but continued to operate. Besides reconditioning the hydrostation itself, the working member connected to the station (in our case the pump) is reconditioned also. For full and final reconditioning, the hydrostation has to be operated for 400 to 450 hours under standard operating conditions.

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