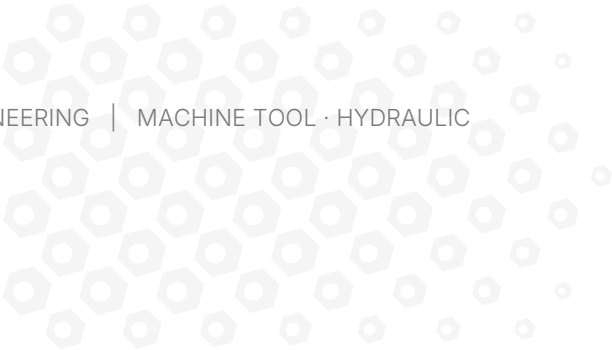




COMMISSION REPORT · MTA COMPANY, PLOVDIV

VERMUT grinding machine: smooth carriage feed without monthly overhauls

MTA Company, Plovdiv, Bulgaria · commission: chief mechanic Toni Tonev, operator Velichko Bazelkov, manager of MAY Ltd Angel Iliev
Plovdiv, Bulgaria · report dated 10.01.2004

PRODUCT	TEST OBJECT	DOCUMENT TYPE
XADO revitalizant treatment by XADO technology	VERMUT internal grinding machine hydraulic system · high-speed electric motor bearings	Company commission report with signatures and stamp

EQUIPMENT	CONDITION BEFORE TREATMENT	WHAT WAS MONITORED
VERMUT internal grinding machine (Switzerland), in service since 1986	Uneven longitudinal carriage feed, spool seizure, oil leaks, metallic knocking	Oil pressure in the hydraulic system, feed uniformity, leaks, noise
Machine electric motor, high-speed bearings	Operation with elevated noise	Noise level in operation

The hydraulic control valves had to be dismantled every month: the spool pairs seized due to wear and misalignment.

Key result

↑ **2 bar**

oil pressure in the machine hydraulic system, 17 → 19 bar

Hydraulic system of the machine

PARAMETER	BEFORE TREATMENT	AFTER TREATMENT
Oil pressure	17 bar	19 bar
Longitudinal carriage feed	Uneven, the carriage came to a stop	Uniform, regardless of the length of operation
Hydraulic control valves	Spool seizure, dismantling every month	The need for repair disappeared
Oil leaks	Caused uneven operation and stopping of the carriage	Reduced considerably
Noise in operation	Metallic knocking, noisy hydraulic pump	The metallic knocking disappeared

The changes were recorded by the company commission: the chief mechanic, the machine operator and the representative of the contractor.

Second treated unit — electric motor bearings

PARAMETER	BEFORE TREATMENT	AFTER TREATMENT
Noise level of the electric motor	Elevated noise of the high-speed bearings	Decreased considerably

The electric motor bearings were treated by the same XADO technology as the machine hydraulic system.

Commission conclusion

The company commission recorded in the report: the hydraulic system of the machine was treated with XADO revitalizant, **the oil pressure increased by 2 bar**, and the carriage movement became uniform, regardless of the length of operation. Oil leaks were reduced considerably and the need to repair the hydraulic control valve disappeared. The metallic knocking during machine operation disappeared. The high-speed bearings of the electric motor, whose operation was accompanied by elevated noise, were also treated by XADO technology; after the treatment the noise level of the electric motor decreased considerably. By the time of treatment the machine had worked in the shop for eighteen years: the carriage feed drifted, the spool seized due to wear and misalignment, and the hydraulic control valves were opened up every month.



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The results apply to the VERMUT internal grinding machine and its hydraulic system under the conditions of MTA Company, Plovdiv; on other equipment and in other operating modes the figures may differ. The original report dated 10.01.2004 with signatures and stamp is published in full and available for download.