



REPORT ON THE RESULTS OF PILOT TREATMENT · NOVEMBER 2006

Jones-Shipman machine: the gearbox became quieter with no disassembly

JSC MZKRS — Moscow Plant of Jig Boring Machines · report approved by chief engineer S. I. Grishakov;
signed by the head of the machine-tool production shop and the deputy chief designer
Moscow, Russia · treatment 11.09–29.09.2006 · report approved in November 2006

PRODUCT	TEST OBJECT	DOCUMENT TYPE
XADO revitalizant gel 2 tubes (18 ml) added to the gearbox lubrication system	Jones-Shipman cylindrical grinding machine gearbox · inv. No. Sh-170	Report of JSC MZKRS signatures and company seal

EQUIPMENT	WHAT WAS TREATED	WHAT WAS MEASURED
Jones-Shipman cylindrical grinding machine, inv. No. Sh-170	Gearbox, in regular shop operation	Gearbox noise level before treatment and after operating time

The gel was added to the lubrication system according to the manufacturer's instructions: the unit was not opened, no parts were replaced, and the machine stayed in shop operation.

Key result

↓ **12 dB**

gearbox noise level, 75 → 63 dB

Gearbox noise level over the course of observation

OBSERVATION STAGE	NOISE LEVEL
Before the work started	75 dB
After ≈40 h of operation (about a week) — grinder operator's assessment	Noticeable noise reduction by ear
After ≈110 h of operation — repeat measurement	63 dB

Measurements were taken at the gearbox before the product was added and again after ≈110 h of machine operation; the unit was not disassembled during this period.

Conclusion of the plant commission

The commission of JSC MZKRS recorded a reduction of the noise level in the gearbox of the cylindrical grinding machine from **75 dB** to **63 dB**. The grinder operator noticed a marked reduction by ear after just **40 h** of operation; the instrument measurement was taken after **110 h**. The unit was not opened and no parts were replaced: the revitalizant gel was added to the lubrication system of the machine, which stayed in shop operation. Conclusion of the report: "the positive results achieved demonstrate the effectiveness of using the revitalizant gel of the XADO company on metal-cutting equipment".

XADO

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The results apply to the gearbox of the Jones-Shipman cylindrical grinding machine under the conditions of the machine shop at JSC MZKRS; on other equipment and under different operating modes the figures may differ. The original report with signatures and seal is published in full and available for download.