



TESTING AT A WORKING PLANT, JUNE—SEPTEMBER 2003

Air compressor: higher output, lower oil consumption

OJSC Vladivostok Meat Processing Plant · chief engineer V. I. Potapovich · treatment performed by the Exclusive Representative Office of XADO Corporation in Primorsky Krai, deputy director A. E. Leonov
Vladivostok, Russia · test period June—September 2003 · report dated 20.09.2003

PRODUCT	TEST OBJECT	DOCUMENT TYPE
XADO revitalizant gel for compressors three-stage treatment, without disassembly and without an oil change	Plant air compressor crankcase volume 10.5 l · operated as required	Test report of OJSC Vladivostok Meat Processing Plant

EQUIPMENT	CONDITION AT THE START OF TESTING	WHAT WAS MEASURED
Plant air compressor	In service, crankcase volume 10.5 l, oil consumption 40 ml/h	Time to fill the receiver to working pressure, oil consumption, electricity draw under load

The treatment was carried out without an oil change, so the "before" and "after" measurements were taken on the same oil fill; the control measurements were taken after three months of operation.

Key results

 **90 s**

time to fill the receiver to working pressure, 3 min 40 s
→ 2 min 10 s

 **4x**

compressor oil consumption, 40 → ~10 ml/h

Measurements before treatment and after three months of operation — air compressor

PARAMETER	BEFORE TREATMENT	AFTER 3 MONTHS OF OPERATION
Time to fill the receiver to working pressure	3 min 40 s	2 min 10 s
Oil consumption (crankcase volume 10.5 l)	40 ml/h	~10 ml/h
Electricity draw under load (380 V, 38 A)	20 kW	20 kW, unchanged

The power drawn under load did not change — the electricity saving comes from the shorter time the compressor runs under load.

Report conclusions

The report of OJSC Vladivostok Meat Processing Plant records the following test results:

1. The use of XADO revitalizants increased the compressor output and reduced the consumption of lubricants. If this equipment is operated **8 hours a day** at rated load, the cost of the treatment will be recovered through electricity savings within **~26 days** (not counting the saving on lubricants).
2. The use of XADO revitalizants and lubricants is advisable. The compressor was treated without disassembly and without an oil change, directly in the plant's normal operation.

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The results relate to the air compressor of OJSC Vladivostok Meat Processing Plant and to its operating regime; on other equipment and under a different load the figures may differ. The payback period is quoted as given in the report, which was co-signed by the XADO Corporation representative office that performed the treatment. The original report is published in full and available for download.