



WORK COMPLETION CERTIFICATE OF 10 JANUARY 2001

VP 202-13/8 compressor: more air, less current, no teardown required

OAo KHLEB, production department · treatment performed by Azurit LLC under contract No. 7/11 of 07.11.2000 · certificate approved by the chief engineer of OAo KHLEB and the director of Azurit LLC, signed by the plant's chief mechanic and the contractor's technical director

Ukraine · contract No. 7/11 of 07.11.2000 · certificate of 10.01.2001, two stamps

PRODUCT

XADO Technology®
repair-and-restoration
treatment under normal
operating conditions

TREATED UNIT

VP 202-13/8 compressor
electrically driven reciprocating
compressor, production
department of OAo KHLEB

DOCUMENT TYPE

Work completion certificate
signatures and stamps of
both parties

EQUIPMENT

CONDITION AT START OF WORK

WHAT WAS MEASURED

VP 202-13/8 compressor

Plant equipment in service,
treated without disassembly and
without being taken out of
operation

Filling time at a pressure of 38 kgf/cm²;
drive current draw

The treatment was carried out by specialists of Azurit LLC on the running compressor: the unit was not opened and production was not stopped.

Key results

↑ **21 %**

compressor output at 38 kgf/cm², filling time 120 → 99 s

↓ **10.4 %**

drive current draw, 125 → 112 A

Measurements before and after treatment — VP 202-13/8 compressor

PARAMETER	BEFORE	AFTER	CHANGE
Filling time at a pressure of 38 kgf/cm ²	120 s	99 s	output +21 %
Drive current draw	125 A	112 A	–13 A · –10.4 %

The certificate determines compressor output from the filling time at a pressure of 38 kgf/cm²; no direct measurement in m³/min was performed.

Certificate conclusion

After treatment on the run, the same volume is filled in **99 s** instead of **120 s**, while the drive draws **112 A** instead of **125 A**: the compressor delivers more air and at the same time consumes less electricity. Conclusion of the certificate: the use of XADO Technology® makes it possible to increase equipment output, thereby extending its service life and lengthening the intervals between overhauls, to prevent wear of new equipment, and to successfully treat compressors by XADO Technology® in normal duty, with guaranteed savings on energy. Recommendations: to introduce into the scheduled equipment repair system planned preventive work on machines and mechanisms by XADO Technology, providing a significant increase in serviceable life. XADO Technology® is recommended for further implementation at OAO KHLEB.



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The results relate to the VP 202-13/8 reciprocating compressor of OAO KHLEB, treated under normal operating conditions; figures may differ on other units and in other duty modes. The original certificate of 10.01.2001 with signatures and stamps is published in full and available for download.