

WORK COMPLETION CERTIFICATE UNDER CONTRACT No. 15U OF 19.01.2001

AU 200 compressor: higher output, lower current and oil use

CJSC MKF, compressor shop · certificate approved by Acting Chief Engineer G. G. Zhenilo · work performed by GEVS i K Ltd.

Mariupol, Ukraine · contract No. 15U of 19.01.2001 · certificate of 08.02.2001

PRODUCT

XADO Technology®
restorative repair of the
compressor under contract No.
15U

TREATED UNIT

Compressor AU 200 No. 9
compressor end and drive
electric motor

DOCUMENT TYPE

Work completion certificate
CJSC MKF, 08.02.2001

UNIT	ASSEMBLY	WHAT WAS MEASURED
Compressor AU 200 No. 9	Compressor end	Output, oil consumption
Compressor AU 200 No. 9	Drive electric motor	Phase current

Measurements were taken on one and the same unit before and after treatment. The whole cycle of work took 20 days: contract 19.01.2001, certificate 08.02.2001.

Key results

↑ **83 %**

compressor output, 11 → 6 s

↓ **18 %**

phase current of the drive electric
motor, 110 → 90 A

↓ **2.1×**

oil consumption, 15 → 7 l

Compressor end — measurements before and after treatment

PARAMETER	BEFORE TREATMENT	AFTER	CHANGE
Output (measurement time)	11 s	6 s	higher by 83 %
Oil consumption	15 l	7 l	lower by 2.1×

Output was assessed by the measurement time: the shorter the time, the more air the compressor delivers over the same period.

Drive electric motor — measurements before and after treatment

PARAMETER	BEFORE TREATMENT	AFTER	CHANGE
Phase current	110 A	90 A	lower by 18 %

The current dropped while output rose at the same time — the drive overcomes less resistance in the compressor's friction assemblies.

Conclusion

Compressor AU 200 No. 9 of the compressor shop of CJSC MKF underwent restorative repair using XADO Technology® under contract No. 15U. Measurements were taken on one and the same unit before and after treatment. Output rose: the measurement time fell from **11** to **6 s**. The phase current of the drive electric motor dropped from **110** to **90 A**, and oil consumption from **15** to **7 l**. Their combination is what matters: the compressor began delivering more while drawing less current — a direct sign of reduced friction losses in its assemblies. The whole cycle, from the contract of 19.01.2001 to the signing of the certificate on 08.02.2001, took 20 days. The certificate was approved by the Acting Chief Engineer of CJSC MKF and signed by the head of the compressor shop, the chief power engineer and a representative of the contractor.

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The results relate to compressor AU 200 No. 9 of the compressor shop of CJSC MKF and to its operating conditions; on other units and duty cycles the figures may differ. The work was performed by GEVS i K Ltd. under contract No. 15U of 19.01.2001. The original certificate with signatures and seal is published in full and available for download.