



ACT OF JSC UKRELEKTROMASH DATED 18.01.2001

# Compressor 2VM 4-24/9 M-1: output rose and holds up under load

JSC Ukrelektromash, Kharkiv Electrical Engineering Plant · boiler and compressor section · approved by the plant's technical director F. F. Laptsevich

Kharkiv, Ukraine · contract No. 91-P dated 01.12.2000 · measurements on 08.12.2000 and 18.01.2001

| PRODUCT                                                                                            | TEST OBJECT                                                                                                                                               | DOCUMENT TYPE                                                                                           |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| XADO compound<br>restorative repair by XADO<br>technology® · contract No. 91-P<br>dated 01.12.2000 | Piston compressor<br>2VM 4-24/9 M-1<br>compressor No. 8 of the boiler<br>and compressor section · 3 m <sup>3</sup><br>receiver, working pressure 8<br>atm | Technical act,<br>signed by both parties<br>seal and the technical director's<br>«Approved» endorsement |

| EQUIPMENT                                  | OPERATING CONDITIONS                                                                                | WHAT WAS MEASURED                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Piston compressor 2VM<br>4-24/9 M-1, No. 8 | Boiler and compressor section of the<br>plant, 3 m <sup>3</sup> receiver, working pressure<br>8 atm | Time to build working pressure<br>from 0 to 8 atm |

The compressor ran in the section's normal duty: the «before» measurement on 08.12.2000, the «after» measurement at 400 hours of operation, on 18.01.2001.

## Key result

↑ **60 %**

compressor output, build-up to 8 atm: 1 min 36 s → 1 min 00 s

# Measurements before and after the restorative repair

| PARAMETER                                                     | BEFORE REPAIR, 08.12.2000 | AFTER, 400 h OF OPERATION |
|---------------------------------------------------------------|---------------------------|---------------------------|
| Time to build working pressure from 0 to 8 atm                | 1 min 36 s                | 1 min 00 s                |
| Compressor output by filling of the 3 m <sup>3</sup> receiver | 100 %                     | 160 %                     |

Output was determined from the time to fill the 3 m<sup>3</sup> receiver to 8 atm; the standard instruments and sensors of the compressor unit were used for the measurements.

## Conclusion of the plant commission

The commission of JSC Ukrelektromash — the deputy chief engineer, the head of the maintenance and repair shop, and the foreman of the boiler and compressor section — recorded: after the restorative repair of the compressor 2VM 4-24/9 M-1 by XADO technology® using the XADO compound, the time to build working pressure in the 3 m<sup>3</sup> receiver fell from **1 min 36 s** to **1 min 00 s**. The «after» measurement was taken at **400 hours** of operation, so the effect holds on a working machine, not only in the first hours after treatment. The act's conclusion verbatim: «The results obtained indicate the expediency of carrying out restorative repair by XADO technology® on all industrial equipment» of the plant. The act was approved by the plant's technical director under seal.

**XADO**

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The results relate to the piston compressor 2VM 4-24/9 M-1 of the boiler and compressor section of JSC Ukrelektromash and to the duty of filling a 3 m<sup>3</sup> receiver to 8 atm; on other equipment and in other duties the figures may differ. The original act with signatures and seal is published in full and available for download.