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IE C008 | INDUSTRIAL CASE STUDY | PACKAGING AND PRINTING | COMPRESSOR PLANT

TECHNICAL REPORT · SEPTEMBER 2001

Compressor VP 10/9: lower current draw with no teardown or shutdown

Digorsk Corrugated Packaging Plant · chief power engineer V. M. Sumenov · treatment performed by Vlad-Khado

North Ossetia–Alania, Russia · treatment 06.08.2001 · report 02.09.2001

PRODUCT

Treatment by XADO technology

repair and restoration work with XADO compound, without disassembling the unit

TEST OBJECT

Compressor VP 10/9

reciprocating two-stage · plant compressor unit

DOCUMENT TYPE

Technical report with signatures and stamp

EQUIPMENT	OPERATING MODE	WHAT WAS MEASURED
Compressor VP 10/9, reciprocating two-stage	Regular service: treatment applied to the running machine, without teardown or shutdown	Current draw before treatment and after 160 hours of operation

The treatment was applied on 06.08.2001; the check measurement was taken after 160 h of compressor operation.

Key result

↓ 8.8 %

compressor current draw, 110.8 → 101 A

Compressor VP 10/9 — current draw

PARAMETER	BEFORE TREATMENT	AFTER 160 H	REDUCTION
Current draw	**110.8 A**	**101 A**	**9.8 A · 8.8 %**

By the time of the measurement the treatment had been carried out in two incomplete stages — the result was obtained on an unfinished cycle.

Report conclusion

Compressor VP 10/9 was treated by XADO technology without teardown and without stopping production — directly under regular service conditions. After **160 hours** of operation the current draw fell from **110.8 A** to **101 A**. The report notes separately that by that moment the treatment had gone through two incomplete stages: the figure was taken on an unfinished cycle. The wording of the report, verbatim: «The result obtained gives grounds to speak of an electricity saving of at least **9.8 A**». For a continuous-duty compressor unit this is a direct cost item: the reduction holds on the running machine, without taking the equipment out for repair and without replacing parts.

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The results refer to the reciprocating two-stage compressor VP 10/9 of the stated installation; with other equipment and a different load pattern the figures may differ. The treatment was performed by Vlad-Khado (Vladikavkaz) — the same company drew up and certified the report. The original report with signatures and stamp is published in full and available for download.