

TECHNICAL ACT · ROPE SHOP KT_s-2

Rope machine compressors: output rose without teardown or shutdown

Volgograd Steel Wire Rope Plant OJSC (VSPKZ), rope shop KT_s-2 · treatment performed by Stroy-Servis
STC LLC, measurements supervised by plant personnel

Volgograd, Russia · treatment and measurements 22.07–02.08.2002

PRODUCT

XADO Gel
revitalizant · introduced into the
cylinder-piston group without
disassembling the unit

TREATED OBJECT

Rope machine
compressors
cylinder-piston group · rope
shop KT_s-2

DOCUMENT TYPE

Technical act
of VSPKZ OJSC dated
02.08.2002
signatures of the customer and
the contractor, company seal

COMPRESSOR	RECEIVER VOLUME	CONTROL PRESSURE	WHAT WAS MEASURED
Machine No. 147	0.2 m ³	8 at	Fill time, output
Machine No. 112	0.075 m ³	11 at	Fill time, output, oil pressure
Machine No. 101	0.2 m ³	11 at	Fill time, output
Machine No. 128	0.1 m ³	7 at	Fill time, output
Machine No. 127	0.1 m ³	8 at	Fill time, output

The compressors were treated in place, without disassembly and without being taken out of service; the before and after measurements were supervised by personnel of VSPKZ OJSC.

Key result

↑ 10-30 %

compressor output, receiver fill time 2 min 10 s – 6 min 15 s → 1 min 40 s – 5 min 10 s

Compressor output — measured by receiver fill time

COMPRESSOR	BEFORE TREATMENT	AFTER TREATMENT	OUTPUT, PER THE ACT
Machine No. 147	3 min 25 s	3 min 05 s	+10 %
Machine No. 112	2 min 10 s	1 min 40 s	+24 %
Machine No. 101	8 min 30 s	8 min 20 s	+1.5 %
Machine No. 128	6 min 15 s	5 min 10 s	+17 %
Machine No. 127	3 min 35 s	2 min 30 s	+30 %

The percentages are quoted as given in the act. A receiver of known volume was filled to the control pressure; the before and after measurements were taken under normal operating conditions.

What the measurements showed

The compressors of the rope machines in shop KTs-2 were treated with XADO Gel through the cylinder-piston group directly at their workplaces: the units were neither disassembled nor taken out of service, and the before and after measurements were taken by plant personnel. Receiver fill time was reduced on every treated compressor, and according to the text of the act the output gain on four machines amounted to **10-30 %**. On machine No. 112 the oil pressure rose together with the output — by **1.7 at**: the restored clearances in the cylinder-piston group and the lubrication system hold pressure again. For the shop this means the same compressed air with less compressor running time — without disassembly, without stopping production and without replacing equipment.

XADO

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The results relate to the compressors of the rope machines of rope shop KTs-2 at VSPKZ OJSC and to the measurement conditions stated in the act; on other equipment the figures may differ. The original technical act dated 02.08.2002 with signatures and seal is published in full and available for download.