

REPORT

On measuring the parameters of piston compressor BII 205 40/3, serial No. 50120, treated to the XADO technology at "SKLO" Ltd., City of Meref, 13.08.2001

Parameter	Prior to treatment	After treatment	Remark
Oil flow through lubricator (l/hr)	0.5	0.35	
Oil pressure (kg/cm ²)	1.1	1.15	
Oil working temperature (°C)	76	73	
No-load current consumption (A)	210	150	
Pumping time (sec)	280	265	From 1.5 to 3.5 atm.
Vibration level (mm/sec)	Stage I – 2,4 Stage II – 1.5	0.8 0.8	
Noise level (dB)	93.5	89.5	
Coolant working temperature (°C)	32	32	
Working temperature of air at outlet (°C)	129	124	

After treatment, oil leakage through the piston-cylinder group was reduced; electric power consumption was reduced by 28.5 %; and the noise and vibration levels were reduced.

The compressor capacity increased by 5.6 %.

Water ingress from the cooling system to the stage II cylinder working space stopped due to closing of the micro cracks present in the cylinder lining with a cermet layer.

Chief Mechanic
"SKLO" Ltd.

Diachenko V.A.

Senior Foreman
of "SKLO" Ltd. compressor bay

Sobol' S.V.

Engineer
"XADO" Ltd.

Sharaikin I.N.

"Approved"
Director of PKP "Serna"

"Approved"
Deputy Manger of SE "Ukrvodput"

A.M. Yershov

G.N. Medvedev