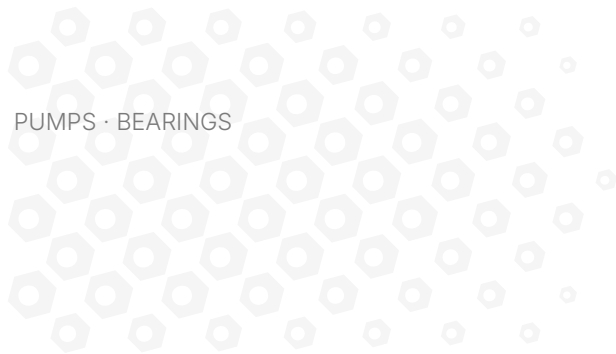


**ACT ON THE RESTORATION OF A 22NDS PUMP BEARING**

Pump 22NDS: a bearing written off for wear returned to service

Dniprovska Water Supply Station, Kyivvodokanal municipal utility · approved by the station's chief engineer V. A. Kostiuk; for the customer — pumping station manager A. N. Fursa and head of the chief mechanic department A. I. Rachenko; work performed by XADO-Kyiv JSC

Kyiv, Ukraine · treatment 05.10.2000 · act 05.03.2001 · five months of service under observation

PRODUCT

XADO RVS
repair-and-restoration
compounds of the XADO
technology

TREATED UNIT

22NDS water pump
double-row self-aligning
radial-thrust roller bearing, type
3542

DOCUMENT TYPE

Act on the restoration of
the bearing
signed and sealed by the
station

UNIT**CONDITION AT THE START OF WORK****WHAT WAS RECORDED**

22NDS water pump, type
3542 bearing

Removed as withdrawn from service
due to exhausted service life;
lubricant — Litol grease

Temperature and noise behaviour of
the bearing, operation without
overheating

The bearing was not replaced — the unit was treated with XADO RVS compounds and refitted to the pump.

Key result

5 months

regular service of the bearing without overheating, 05.10.2000 → 05.03.2001

The pump bearing before and after treatment

PARAMETER	BEFORE TREATMENT	AFTER TREATMENT
Serviceability of the unit	Service life exhausted, bearing removed from the pump	Restored with XADO RVS compounds and returned to service
Temperature and noise behaviour	Disturbed	Restored within five hours of pump operation
Further operation	The unit was due for replacement	Five months of regular service without overheating

The behaviour was assessed from the pump's actual operation: the act gives no instrument measurements of temperature or noise.

Conclusion of the act

The Dniprovskaya Water Supply Station of the Kyivvodokanal municipal utility recorded in the act: «After the bearing was treated with XADO compounds, the temperature and noise behaviour were restored within five hours of pump operation. To date the aforementioned bearing has been running without overheating in regular service». The unit in question is a double-row self-aligning radial-thrust roller bearing of type 3542, previously removed as withdrawn from service with its life exhausted: a unit deemed unfit and due for replacement returned to work and completed **five months** of regular service by the date the act was signed. For the pumping station this means a bearing replacement that never had to happen and a machine that stayed on line.

XADO

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The results relate to a type 3542 roller bearing of a 22NDS water pump under the conditions of the Dniprovskaya Water Supply Station; on other units and duty cycles the figures may differ. The original act with signatures and seal is published in full and available for download. RVS is an obsolete XADO designation for zero-generation compounds; the current generation of products is revitalizants.