INSPECTION REPORT OF 14.11.2000

Stripper crane No. 3: a worn hollow shaft runs with no added wear

OJSC Ilyich Mariupol Iron and Steel Works, TsPS shop · inspection by a commission of the Chief Mechanic's Department; approved by the plant's chief mechanic P. N. Kirilchenko

Mariupol, Ukraine · treatment 05–07.09.2000 · inspection 14.11.2000 · report approved 16.11.2000

PRODUCT

XADO RVS

XADO technology · unit treated in three stages

TEST OBJECT

Stripper crane No. 3

stripper ram and hollow shaft · result reported for the hollow shaft tooth

DOCUMENT TYPE

Inspection report by the plant commission

signed by three specialists of the Chief Mechanic's Department and the shop, approved by the chief mechanic, sealed

EQUIPMENT	CONDITION AT THE START OF WORK	WHAT WAS MEASURED
Stripper crane No. 3, TsPS shop	Hollow shaft worn by **60 %** according to measurements taken before treatment	Hollow shaft tooth parameters

The crane remained in regular service throughout the observation period; treatment was carried out in three stages on 05–07.09.2000.

Key result

0 %

added wear of the hollow shaft tooth over 70 days of service

Hollow shaft: measurement before treatment and inspection 70 days later

PARAMETER	BEFORE TREATMENT, 05.09.2000	INSPECTION, 14.11.2000
Hollow shaft tooth parameters	Measured by the plant commission	Unchanged
Hollow shaft wear	**60 %** — wear accumulated over the service life	Added wear over the period — **0 %**

Measurements before treatment and at the inspection were taken by the commission of the Chief Mechanic's Department of Ilyich MMK; the report was approved by the chief mechanic and certified with a seal.

Course of the work and the commission's decision

STAGE	DATE	DETAILS
Treatment	05–07.09.2000	Stripper ram and hollow shaft treated with XADO RVS technology in three stages
Service	05.09–14.11.2000	**70 days** of crane operation using XADO technology
Inspection	14.11.2000	Plant commission: hollow shaft tooth parameters unchanged
Next inspection	in **2 months**	Scheduled by the commission — together with an analysis of the economic efficiency of the technology

Commission's conclusion

The commission of Ilyich MMK — the head of the Chief Mechanic's Department bureau, the technical supervision mechanic of the same department and the deputy shop manager — recorded in the report of 14.11.2000: “over the period from 05.09.00 to 14.11.00 the parameters of the hollow shaft tooth did not change, i.e. the wear process stopped and wear amounted to **0 %**”. This concerns a unit already worn out when the work began: before treatment, measurements showed **60 %** wear of the hollow shaft. The compound was introduced not into a new mechanism, but into a worn one that continued to carry the regular load of the stripper crane. The plant considered the result sufficient to continue observation: the commission found it necessary to “carry out the next inspection of the hollow shaft and stripper ram of stripper crane No. 3 in **2 months**, together with an analysis of the economic efficiency of the XADO technology”.

XADO

The results refer to the stripper ram and hollow shaft of stripper crane No. 3 at Ilyich MMK and to the observation period 05.09–14.11.2000; on other units and duty cycles the figures may differ. RVS is an obsolete XADO designation for zero-generation compounds; the current product generation is revitalizants. The original report with signatures and seal is published in full and available for download.