



CROWN BLOCK CAT III INSPECTION REPORT

Customer:	Daqing Drilling Company	Date Of Service:	01.05.2024
Type Of Inspection:	CAT III INSPECTION	Report No:	C-DQ-04-24-0138-16-63
Rig & Location:	DQ RIG 1202	Specification:	API RP 8B - ASTM E709

The Rig was Equipped with Travelling Block with the following Specification:

Equipment:	Crown Block
Model:	TC450
S.no:	2020
Date & Manufacturer:	11.2020
load Rating:	4500KN
Manufacturer:	China Petroleum Liaolle Equipment Company
Total Weight:	10809 KG (23829 Lbs.)
Sheave OD:	60 in – 1524mm
Wire Line Dia.:	38 mm 1 1/2 in

The Products Have Been Inspected and Found Them Conformable to Relevant

- Visual check has been performed on data plate and paint condition for the assembled parts
- Visual check has been performed for damage, bent beams.
- Visual check has been performed on the condition of the paint of the crown frame (including handrails)
- Checked access and safety aspects of the crown platform.
- Visual check has been performed for wear and damage of the bumper block and its safety chains and wire mesh condition
- bolts and nuts and connections of the clusters has been checked
- Visual check has been performed on the sheaves for wear or cracks (especially the fast line sheave and first sheave of the cluster
- Visual check has been performed for wear or tolerances of the bearings (fast line sheave and cluster bearing) with a pry bar and check for equal spacing between sheaves
- MPI has been performed on weld areas of the cluster beams
- Verification of the sheaves groove depth Done and compare it with the maximum wear limits identified in OEM recommendations. Table#01
- Verification of the sheaves groove Radius Done and compare it with the maximum wear limits identified in OEM recommendations. Table#02
- Free access and condition of the grease nipples has been performed

INSPECTION RESULT

**** Visual & MPI was carried out on the available welding and critical areas of (Crown Block) components and found satisfactory for further use.**

**** CAT IV Inspection Was Carried Out on Crown Block and Found Accepted at The Time of Inspection.**

ASNT Level II Inspector Name:	Authenticating This Report:	Signature & Stamp:	Date of Next Through Examination:
Mohamed Abdalla	Naveed Hussien		31.10.2024

REV: 01 Dated: 20 June 2022





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Table#01

Travelling Block sheaves rope groove depth has been measured and figured out as per API RP 9B as below

Sheaves No:	Nominal Wire Rope Dim	Actual Depth	Max Allowable Groove Depth	Min Allowable Groove Depth	Remarks/Results
1202-1	38 mm	61.28 mm	66.5 mm	50.54 mm	Accepted
1202-2	38 mm	61.16 mm	66.5 mm	50.54 mm	Accepted
1202-3	38 mm	61.22 mm	66.5 mm	50.54 mm	Accepted
1202-4	38 mm	61.41 mm	66.5 mm	50.54 mm	Accepted
1202-5	38 mm	60.85 mm	66.5 mm	50.54 mm	Accepted
1202-6	38 mm	60.15 mm	66.5 mm	50.54 mm	Accepted
1202-7	38 mm	60.12 mm	66.5 mm	50.54 mm	Accepted

- Total Groove depth for sheaves shall be Min.: 1.33d and Max.: 1.75d where d is the nominal wire rope diameter.

Table#02

Travelling Block sheaves rope groove radius has been measured and figured out as per API RP 9B as below

Sheaves No:	Nominal Wire Rope Dim:	Actual Groove Radius	Max Allowable Groove Radius	Min Allowable Groove Radius	Remarks/Results
1202-1	38 mm	20.10 mm	20.96mm	19.53mm	Accepted
1202-2	38 mm	20.19 mm	20.96mm	19.53mm	Accepted
1202-3	38 mm	20.10 mm	20.96mm	19.53mm	Accepted
1202-4	38 mm	20.12 mm	20.96mm	19.53mm	Accepted
1202-5	38 mm	19.69 mm	20.96mm	19.53mm	Accepted
1202-6	38 mm	20.50 mm	20.96mm	19.53mm	Accepted
1202-7	38 mm	20.20 mm	20.96mm	19.53mm	Accepted

- Total rope groove radius for sheave (max. and min.) limits is as per API RP 9B table07 – Groove Radii of Sheaves

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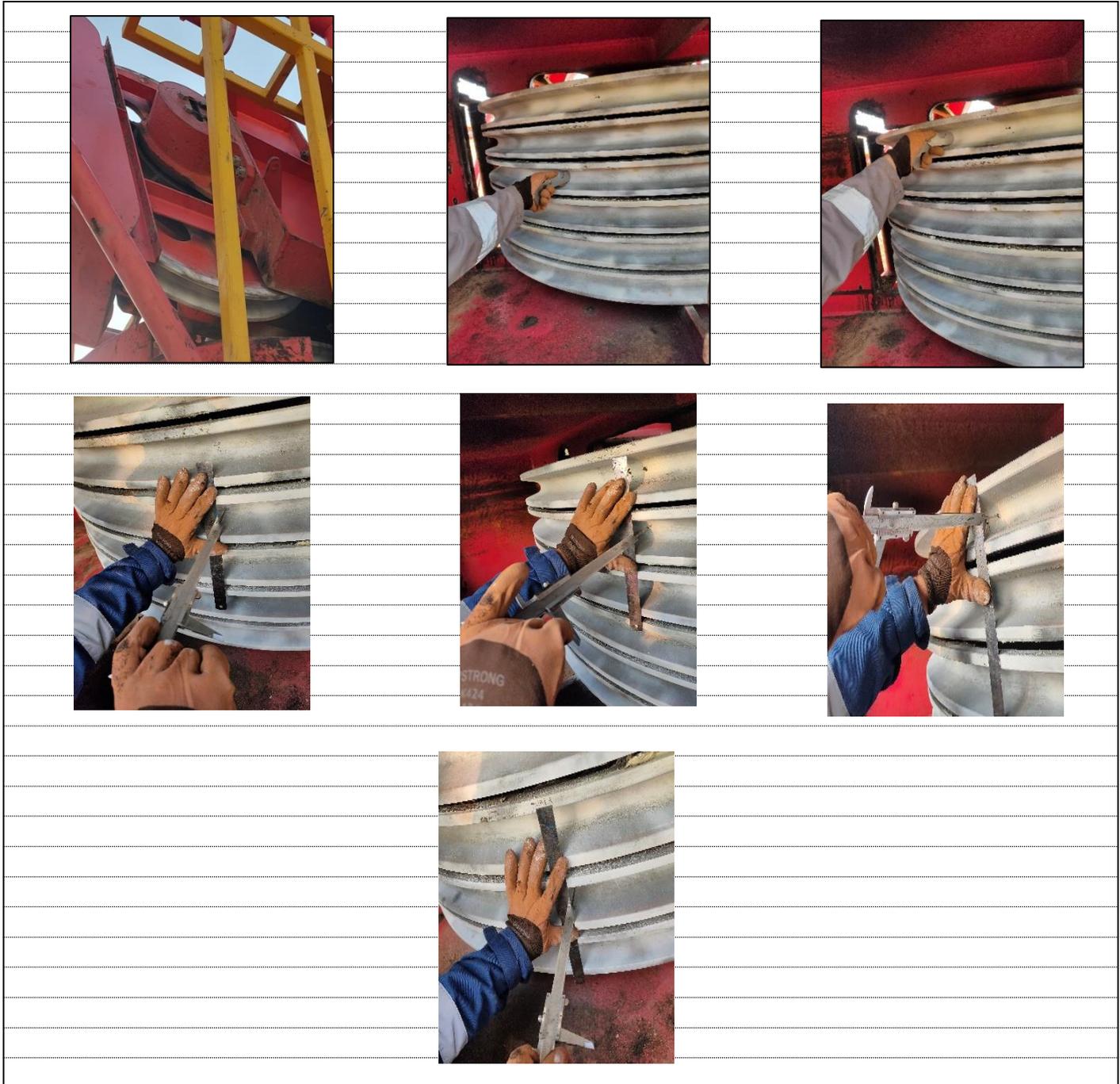
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