



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 Liaohe 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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