



Customer:	Hilong Oil Services & Engineering	Date Of Service:	14-Dec-2024
Type Of Inspection:	CAT III INSPECTION	Report No:	ATS-12-24-4705-CB-01
Rig Number:	HL-16	Specification:	API RP 8B, API RP 9B



ABERDEEN Technical Services Would Like to Thank You for Giving Us the Opportunity to Work With Your Honorable Company

Inspection Date:	14-12-2024	Due Date:	13-06-2025
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Inspector:	Hasan Omran 	OEM:	
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The Rig Was Equipped with BAOJI OILFIELD MACHINERY CO., LTD Crown Block, with The Following Specification:

Equipment:	Crown Block
Model:	TC7-450
S/N:	YS11-019
Marker & Date of Manufacture:	BAOJI OILFIELD MACHINERY CO., LTD / 09-2011
Ref Standard:	API RP 4G, API RP 8B
Inspection Frequency:	Every 06 Months

QTY:	1 (set)
Product description:	TC7-450 Crown Block
Max. Rated Load:	4500 KN
Nominal diameter of wire line:	38 mm (1 1/2")
Nominal diameter of Sheaves:	1524 mm
Number of main Sheaves:	6
Weight:	11105 Kg
Dimensions [L x W x H]	3490 x 2753 x 2420 mm

Remarks:
Detailed reports are attached detailing all readings and results in pages (03-08)

Inspector:	Hasan Omran	Supervisor:	Majd Dayoub
OEM:			



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PROCEDURE

- The Crown Block was Inspected and Found Conformable to the Relevant Standard.
- The Rig was equipped with “BAOJI OILFIELD MACHINERY CO., LTD “Crown block

Action	Result
1. Thoroughly visual inspection for damaged, worn, or bent Sheaves & Sheave Flanges	Performed
2. Crown Block Manufacture Name Plate In Place, All Specification of the crown block Were Obtained from Attached Manufacture Manual	Performed
3. Thoroughly visual examine the bolts, nuts & connections of the clusters.	Performed
4. Visually check the sheaves for wear or cracks (especially the fast line sheave & first sheave of the cluster)	Performed
5. Visually check the wear tolerances of the bearings (fast line sheave & cluster bearing) with pry bar & checked for equal spacing between sheaves.	Performed
6. Visually check & MPI the sheave Grooves.	Performed
7. Crown block sheaves grooves Radii were measured as per API 8B, 8C, 9B recommendations for Worn and reconditioned sheaves and the reading are below. (**)	Performed
8. Sheave Groove Depth Shall be measured and to be a Minimum of 1.33d And a Maximum Of 1.75 d, where d Is the Nominal Rope Diameter (*)	Performed
9. Prepare and submit the inspection report.	Performed

Inspector:	Hasan Omran 	Supervisor:	Majd Dayoub 
OEM:			

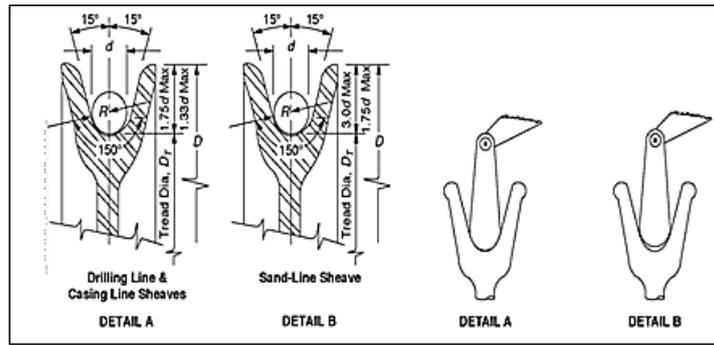


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INSPECTION RESULTS:

***Crown block Sheaves - Groove Depth Measurements**

Sheaves No:	Nominal Wire Rope Dia.:	Actual Depth:	Max Allowable Groove Depth =1.75 d	Min Allowable Groove Depth =1.33 d	Remarks/Results
Fast line Sheave	38 mm	60.12 mm	66.5 mm	50.54 mm	Accepted
Cluster Sheave #1	38 mm	61.07 mm	66.5 mm	50.54 mm	Accepted
Cluster Sheave # 2	38 mm	59.86 mm	66.5 mm	50.54 mm	Accepted
Cluster Sheave # 3	38 mm	58.45 mm	66.5 mm	50.54 mm	Accepted
Cluster Sheave # 4	38 mm	58.71 mm	66.5 mm	50.54 mm	Accepted
Cluster Sheave # 5	38 mm	58.94 mm	66.5 mm	50.54 mm	Accepted
Cluster Sheave # 6	38 mm	59.17 mm	66.5 mm	50.54 mm	Accepted
Catline sheave	19 mm	27.2 mm	33.25 mm	25.27 mm	Accepted



****Crown block Sheaves - Groove Radii Measurements**

Sheaves No:	Nominal Wire Rope Dia.:	Actual Groove radii	Groove radii min allowable worn as per API 9B	Groove radii max allowable worn as per API 9B	Remarks/Results
Fast line Sheave	38 mm	19.95 mm	19.53 mm	20.96 mm	Accepted
Cluster Sheave #1	38 mm	20.43 mm	19.53 mm	20.96 mm	Accepted
Cluster Sheave # 2	38 mm	20.25 mm	19.53 mm	20.96 mm	Accepted
Cluster Sheave # 3	38 mm	20.23 mm	19.53 mm	20.96 mm	Accepted
Cluster Sheave # 4	38 mm	20.21 mm	19.53 mm	20.96 mm	Accepted
Cluster Sheave # 5	38 mm	20.20 mm	19.53 mm	20.96 mm	Accepted
Cluster Sheave # 6	38 mm	20.19 mm	19.53 mm	20.96 mm	Accepted
Catline sheave	19 mm	10.35 mm	9.75 mm	10.49 mm	Accepted

** Visual, MPI, and Dimensional Checks Were Carried Out on the Grooves of the Available Crown Block Sheaves and Found **Satisfactory for Further Use**.

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

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PICTORIAL



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OEM:			





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Visual & Magnetic Particles Examination Report

Client Name:	Hilong Oil Services & Engineering	Rig Number:	HL - 16	Job Number:	ATS-12-24-4705
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Date of Examination:	14-12-2024	Date of Report:	14-12-2024	Certificate No:	ATS-12-24-4705-CB-01
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Serial Number	Description of the examined equipment	Result
YS11-019	Crown Block Sheave Grooves	Pass
S/N:	Fast Line Sheave + Catline Sheave	



NDT Equipment Details

Standard	API RP 8B CAT-III & ASTM E709	Viewing Condition:	Colored Media	Method	WET
Yoke	Ac yoke	Serial No:	201504044	Due Date	27-12-2024
White Contrast	FLUXO: WCP-4	Batch No:	L230523/1	Due Date	23-05-2028
Black Ink	FLUXO: Black magnetic ink-3	Batch No:	L230125/3	Due Date	25-1-2025

NDT Results

Visual and MPI carried out for the above-mentioned items and found free of surface defects at the time of inspection

Identification of any part found to have a defect and a description of the defect: **None**

Particulars of any repair, renewal or alteration required to remedy the defect identified above: **None**

ASNT Level II Inspector Name:	Signature & Stamp:	Date of Next Through Examination:
Hasan Omran		13-06-2025



International Well Control Forum



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ATS-RIG-F-032 ISSUE 1 JUN 2023



Customer:	Hilong Oil Services & Engineering	Date Of Service:	14-Dec-2024
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Rig Number:	HL-16	Specification:	API RP 8B, API RP 9B

Visual & Magnetic Particles Examination Report

Client Name:	Hilong Oil Services & Engineering	Rig Number:	HL - 16	Job Number:	ATS-12-24-4705
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Date of Examination:	14-12-2024	Date of Report:	14-12-2024	Certificate No:	ATS-12-24-4705-CB-02
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Serial Number	Description of the examined equipment	Result
YS11-019	Crown Block Sheave Grooves	Pass
S/N:	Main Sheaves (Cluster) – Qty: 6	



NDT Equipment Details

Standard	API RP 8B CAT-III & ASTM E709	Viewing Condition:	Colored Media	Method	WET
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White Contrast	FLUXO: WCP-4	Batch No:	L230523/1	Due Date	23-05-2028
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Particulars of any repair, renewal or alteration required to remedy the defect identified above: **None**

ASNT Level II Inspector Name:	Signature & Stamp:	Date of Next Through Examination:
Hasan Omran		13-06-2025

