Customer:	**Hilong Oil Services & Engineering**	**Date Of Service:**	**17-July-2024**
Type Of Inspection:	**CAT III INSPECTION**	**Report No:**	**ATS-07-24-4007-011**
Rig & Rig Number:	**RIG-99**	**Specification:**	**API RP 8B, API RP 4G**

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

Inspection Date:	17-07-2024	**Due Date:**	16-01-2025
Inspector:	**Aram Dlawar**	**OEM:**	

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Emails: akader@aberdeents.com
inspection@aberdeents-iq.com

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The Rig Was Equipped with SJ PETRO-MACHINERY GROUP CO.LTD Crown Block, with The Following Specification:

Equipment:	Crown Block
Model:	STC180
S/N:	180601
Marker & Date of Manufacture:	SJ PETROLEUM MACHINERY / 06-2018
Ref Standard:	API RP 4G, API RP 8B
Inspection Frequency:	Every 06 Months

QTY:	1 (set)
Product description:	STC-180 Crown Block
Max. Rated Load:	1800 KN
Manufacture:	SJ PETROLEUM MACHINERY
Nominal diameter of wire line:	1 1/8'' – (29 mm)
Total Weight:	1620 Kg. (3600 lbs).
Sheave OD:	892–1066 mm. (35-42 in)

Remarks:

Detailed reports are attached detailing all readings and results in pages (03-09)

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PROCEDURE

- The Crown Block was Inspected and Found Conformable to the Relevant Standard.
- The Rig was equipped with SJ PETRO-MACHINERY GROUP CO.LTD Crown block

Action	Result
1. Thoroughly visual inspection for damaged, and bent beams	Performed
2. Visually check the condition of the paint of the crown frame (including handrails).	Performed
3. Manufacture Name Plate In Place, 4. All Specification of the crown block Were Obtained from Attached Manufacture Manual	Performed
5. Visually check the access and the safety aspects of the crown platform.	Performed
6. Visually check for wear & damage of " bumper block & it's the safety chains & wire conditions be consulted.	Performed
7. Thoroughly visual examine the bolts, nuts & connections of the clusters.	Performed
8. Visually check the sheaves for wear or cracks (especially the fast line sheave & first sheave of the cluster.	Performed
9. Visually check the wear tolerances of the bearings (fast line sheave & cluster bearing) with pry bar & checked for equal spacing between sheaves.	Performed
10. Visually check & MPI were carried out on a welding areas of cluster beams, hang off pad eyes & Jumper bars	Performed
11. Crown block sheaves grooves Radii were measured as per API 8B, 8C recommendation for Worn and reconditioned sheaves and the reading are below. (**)	Performed
12. Measure & document the wear of the sheaves & reference the value to OEM recommendations.	Performed
13. Sheave Groove Depth Shall Be a Minimum Of 1.33d And a Maximum Of 1.75 d, where d Is the Nominal Rope Diameter (*)	Performed
14. repaint the crown as required.	Performed
15. Prepare and submit the inspection report.	Performed

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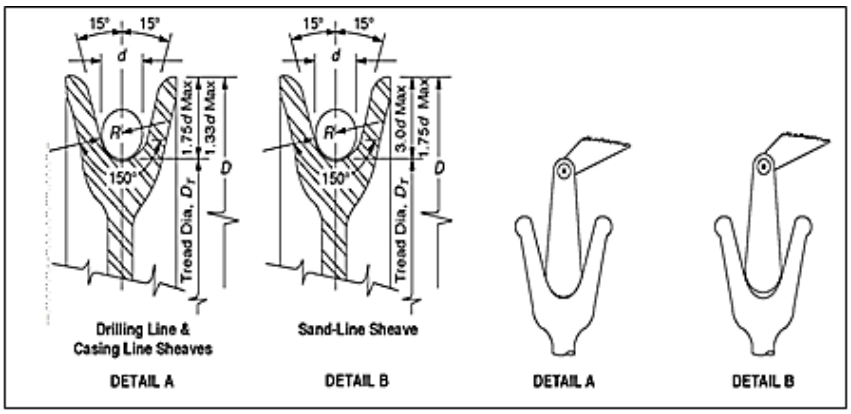
INSPECTION RESULTS:

*Crown block Sheaves - Groove Depth Measurements					
Sheaves No:	Nominal Wire Rope Dim:	Actual Depth:	Max Allowable Groove Depth =1.75 d	Min Allowable Groove Depth =1.33 d	Remarks/Results
01	29	45.40	50.75	38.57	Accepted
02	29	45.45	50.75	38.57	Accepted
03	29	45.40	50.75	38.57	Accepted
04	29	45.30	50.75	38.57	Accepted
05	29	45.40	50.75	38.57	Accepted
06	29	45.49	50.75	38.57	Accepted



**Crown block Sheaves - Groove Radii Measurements					
Sheaves No:	Nominal Wire Rope Dim:	Actual Groove radii	Groove radii min allowable worn as per API 9B	Groove radii max allowable worn as per API 9B	Remarks/Results
01	29	14.90	14.66	15.72	Accepted
02	29	14.91	14.66	15.72	Accepted
03	29	14.92	14.66	15.72	Accepted
04	29	14.95	14.66	15.72	Accepted
05	29	14.89	14.66	15.72	Accepted
06	29	14.91	14.66	15.72	Accepted

** Visual and MPI Was Carried Out on the Available Welding & Critical Areas of the Crown Block and Found Satisfactory for Further Use.

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

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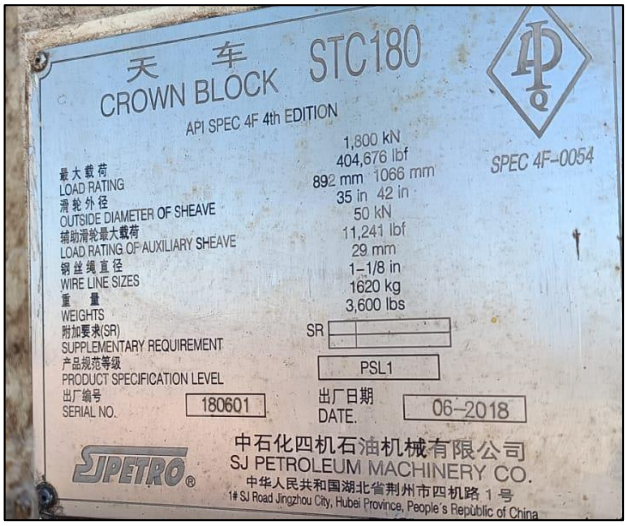
PICTORIAL



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INSPECTION CHECKLIST RESULTS:

Crown Block			
01- Crown Block Support Beams			
Condition	**Accepted**	**Rejected**	**Remarks**
Beam straight	√		Check at regular frequencies
Pins & bolts	√		Check at regular frequencies
Safety pins / keepers	√		Check at regular frequencies
Welds	√		Check at regular frequencies
02- Crown Saver Block			
Safety mesh	√		Check at regular frequencies
Safety cables	√		Check at regular frequencies
Block condition	√		Check at regular frequencies
Attachment strapping	√		Check at regular frequencies
Strapping welds	√		Check at regular frequencies
Number of visible marks applied	√		Check at regular frequencies

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Visual & Magnetic Particles Examination Report

Client Name:	**Hilong Oil Services & Engineering**	**Rig Number:**	**RIG HL99**	**Job Number:**	**ATS-07-24-4007**

Date of Examination:	**17-07-2024**	**Date of Report:**	**17-07-2024**	**Certificate No:**	**ATS-07-24-4007-011**

Serial Number	Description of the examined equipment	Result
180601	Crown Block	Pass
S/N:	-	

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:
Aram Dlawar		**16-01-2025**

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