



Customer:	Hilong Oil Services & Engineering	Date Of Service:	08-12-2024
Type Of Inspection:	CAT IV INSPECTION	Report No:	ATS-12-24-4682-CH-001
Rig & Rig Number:	RIG-22	Specification:	API RP 8B



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

Inspection Date:	08-12-2024	Due Date:	07-12-2025
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Inspector:	Hasan Omran 	Supervisor:	Majd Dayoub 
OEM:			



International Well Control Forum



Tel: +964 7833334444 +964 782222633

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



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The Rig Was Equipped with “BAOJI ENGINEERING HYDRAULIC COMPONENT PLANT CHINA” Cathead, with The Following Specification:

Equipment:	Hydraulic Cathead
Model:	YM16
SN:	54
Maximum Pulling of Wire Rope:	160 KN
Pulling Stroke of the Wire rope:	1500 mm
Maximum pressure:	16 MPa
Date of Manufacture:	11/2013
Manufacturer:	BAOJI ENGINEERING HYDRAULIC COMPONENT PLANT CHINA
Reference Standard:	API RP 8B
Next Examination Date:	After 01 Year

Remarks:

Detailed reports are attached detailing all readings and results in - 03 of 07 pages.

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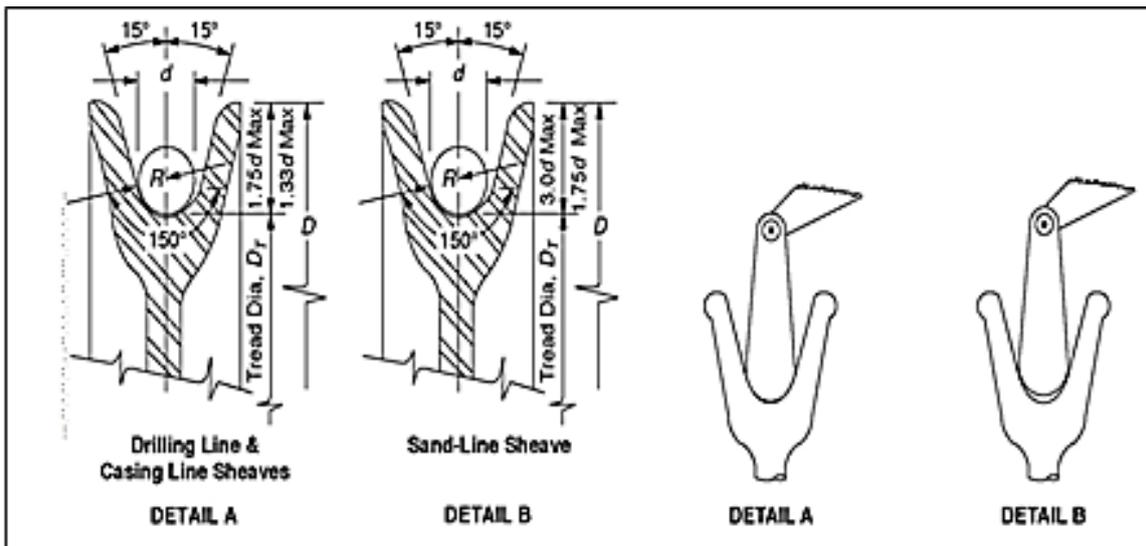
PROCEDURE

- The Cathead has been Inspected and Found Conformable to the Relevant Standard(s)
- The Rig was equipped with “BAOJI ENGINEERING HYDRAULIC COMPONENT PLANT CHINA” Hydraulic Cathead
- The Cathead Found Stripped Down / Fully Dismantling for CAT IV Inspection.

Action	Result
• Visually check for the serial number and Identification	Pass
• Visually check all outside parts of the Cathead including the Frame, Cylinder, Guides, and Hydraulic ports for proper installation and any damage or wear	Pass
• Perform MPI on the welding joints and critical areas	Pass
• Visually check & MPI the sheaves as per manufacture’s recommendations	Pass
• Cathead sheaves grooves Radii are to be measured as per API 8B, 8C recommendation for worn and reconditioned sheaves and the reading are below. (**)	Pass
• Measure & document the wear of the sheaves & compare the value with OEM recommendations.	Pass
• Sheave Groove Depth Shall Be Minimum of 1.33d and Maximum of 1.75 d, where d Is the Nominal Rope Diameter (*)	Pass
• Visually check the fasteners & MPI as per manufacture’s recommendations	Pass
• Complete and submit the inspection report	Pass

***Cathead 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	25.4 mm	35.1 mm	44.45 mm	33.78 mm	Accepted
02	25.4 mm	35.3 mm	44.45 mm	33.78 mm	Accepted





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**Cathead 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	25.4 mm	13.41 mm	13.03 mm	13.97 mm	Accepted
02	25.4 mm	13.37 mm	13.03 mm	13.97 mm	Accepted

** Visual And MPI tests were Carried out on the critical areas and load bearing components of the Cathead and Found **Satisfactory for Further Use**.

** CAT IV Inspection Was Carried Out on the Cathead and Found **Accepted** At The Time of Inspection

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Visual & Magnetic Particles Examination Report

Client Name:	Hilong Oil Services & Engineering	Location:	HL-22/ZB-622	Job Number:	ATS-12-24-4682
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Date of Examination:	08-12-2024	Date of Report:	08-12-2024	Certificate No:	ATS-12-24-4682-CH-001-1
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Unit Serial Number	Description of the examined equipment	Result
54	Cathead Post and Frame	Pass
S/N:	B1 13002-02 BC	



NDT Equipment Details

Standard	API RP 8B – CAT IV & ASTM E 709	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 procedure

Visual and MPI carried out for the above described-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		07-12-2025



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Visual & Magnetic Particles Examination Report

Client Name:	Hilong Oil Services & Engineering	Location:	HL-22/ZB-622	Job Number:	ATS-12-24-4682
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Date of Examination:	08-12-2024	Date of Report:	08-12-2024	Certificate No:	ATS-12-24-4682-CH-001-2
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Unit Serial Number	Description of the examined equipment	Result
54	Hydraulic Cylinder, Sheaves Side plates, and Guide rollers	Pass
S/N:	54	



NDT Equipment Details

Standard	API RP 8B – CAT IV & ASTM E 709	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

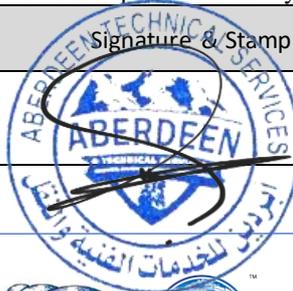
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ASNT Level II Inspector Name:	Signature & Stamp:	Date of Next Through Examination:
Hasan Omran		07-12-2025





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Visual & Magnetic Particles Examination Report

Client Name:	Hilong Oil Services & Engineering	Location:	HL-22/ZB-622	Job Number:	ATS-12-24-4682
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Date of Examination:	08-12-2024	Date of Report:	08-12-2024	Certificate No:	ATS-12-24-4682-CH-001-3
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Unit Serial Number	Description of the examined equipment	Result
54	Sheaves, Wire rope Wedge, and Fasteners	Pass
S/N:	54	



NDT Equipment Details

Standard	API RP 8B – CAT IV & ASTM E 709	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
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