

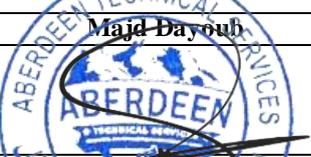


Customer:	Hilong Oil Services & Engineering	Date Of Service:	08-12-2024
Type Of Inspection:	CAT IV INSPECTION	Report No:	ATS-12-24-4682-CH-002
Rig & Rig Number:	RIG-22	Specification:	API RP 8B



**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



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<b>Rig &amp; Rig Number:</b>	<b>RIG-22</b>	<b>Specification:</b>	<b>API RP 8B</b>

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

<b>Equipment:</b>	Hydraulic Cathead
<b>Model:</b>	YM16
<b>SN:</b>	55
<b>Maximum Pulling of Wire Rope:</b>	160 KN
<b>Pulling Stroke of the Wire rope:</b>	1500 mm
<b>Maximum pressure:</b>	16 MPa
<b>Date of Manufacture:</b>	11/2013
<b>Manufacturer:</b>	BAOJI ENGINEERING HYDRAULIC COMPONENT PLANT CHINA
<b>Reference Standard:</b>	API RP 8B
<b>Next Examination Date:</b>	After 01 Year

**Remarks:**

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

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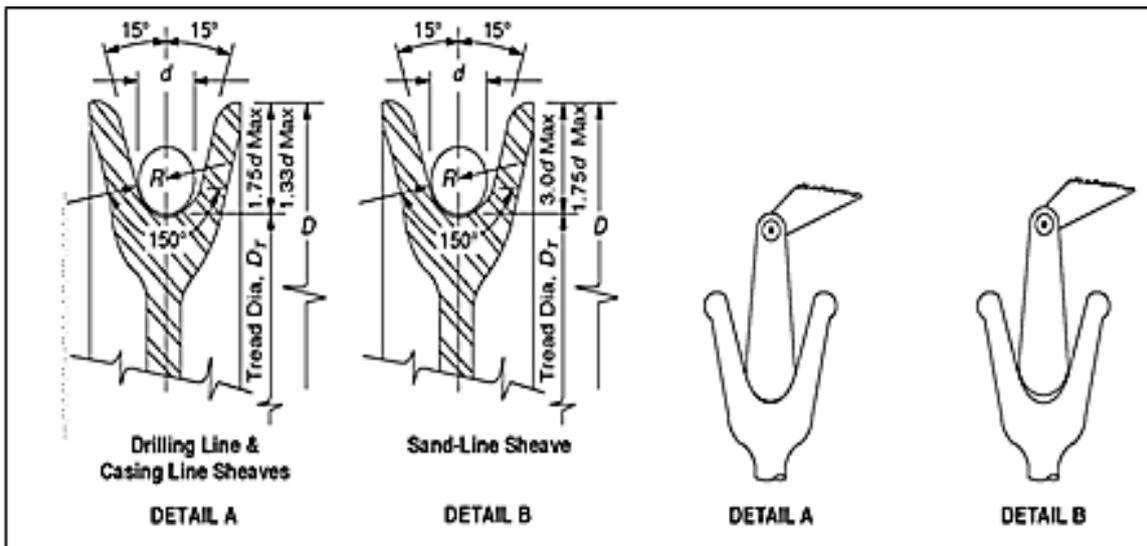
**PROCEDURE**

- 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	35.3 mm	44.45 mm	33.78 mm	Accepted
02	25.4 mm	35.4 mm	44.45 mm	33.78 mm	Accepted





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<b>**Cathead Sheaves - Groove Radii Measurements</b>					
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	13.45 mm	13.03 mm	13.97 mm	Accepted
02	25.4 mm	13.42 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-002-1
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Unit Serial Number	Description of the examined equipment	Result
55	Cathead Post and Frame	Pass
S/N:	B1 13002-01 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-002-2
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Unit Serial Number	Description of the examined equipment	Result
55	Hydraulic Cylinder, Sheaves Side plates, and Guide rollers	Pass
S/N:	55	



### 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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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:
<b>Hasan Omran</b>		<b>07-12-2025</b>



Customer:	Hilong Oil Services & Engineering	Date Of Service:	08-12-2024
Type Of Inspection:	CAT IV INSPECTION	Report No:	ATS-12-24-4682-CH-002
Rig & Rig Number:	RIG-22	Specification:	API RP 8B

## 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-002-3
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Unit Serial Number	Description of the examined equipment	Result
55	Sheaves, Wire rope Wedge, and Fasteners	Pass
S/N:	55	



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

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

