

### DRAW WORKS DISC BRAKE SYSTEM CAT III


<b>Customer:</b>	Daqing Drilling Company	<b>Date Of Service:</b>	08-04-2025
<b>Type Of Inspection:</b>	CAT III Inspection.	<b>Report No:</b>	QC-B-04-25-0213-01
<b>Rig &amp; Location:</b>	DQ-037	<b>Specification:</b>	API RP 7L



#### NDT Equipment Details

Standard	ASTM E 709 API RP 7L	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-10	Due Date	11. May.2025
White Contrast	WCP-2	Batch No:	008A009	Due Date	April.2026
Black Ink	7HF	Batch No:	008A103	Due Date	Jun.2026

#### RIG: DQ-037

ASNT Level II Inspector Name:	Authenticating This Report:	Signature & Stamp	Date of Next Through Examination:
Mohamed Magdy	Mohamed Abdalla		07-10-2025

REV: 01 Dated: 20 June 2022



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The Rig was Equipped with DRAW WORKS with the following Specification:

<b>EQUIPMENT:</b>	DRAW WORKS
<b>MODEL:</b>	JC70D
<b>SN:</b>	JD11-001
<b>REF STANDARD:</b>	API RP 7L
<b>MANUFACTURE:</b>	Baoji Oil field Machinery CO., LTD
<b>DATE OF MANUFACTURE:</b>	04.2011
<b>MAX. FAST LINE PULL:</b>	480 KN
<b>DIAMETER OF WIRE LINE:</b>	38 mm
<b>DIA LENGTH OF DRAM:</b>	770 X 1285 mm
<b>POWER RATING:</b>	1470 KW
<b>DIA OF DISC BRAKE:</b>	1650 mm
<b>NEXT EXAMINATION:</b>	After 6 Months

#### PROCEDURE

The Products Have Been Inspected and Found Them Conformable to Relevant.  
The Rig was equipped with Baoji Oil Field Machinery Co LTO with following specification.  
DRAW WORKS was found partly stripped down /assembled condition for CAT III Inspection.  
Manufacture Name Plate in a Place, All Specification of Draw Works Disc brake.  
Visually inspect break structural members & Dram Draw Work for any cracks, corrosion or weld defects, MPI is encouraged in case of any signs of cracks are found. Replace any worn components as required.  
MPI all Brake structural members (calipers support arms, levers, connecting Pins, Shoe springs, shoe pins, backing Plates) for any cracks, corrosion or Weld defects. Replace any worn components as required.  
Disassemble the components of the brakes systems that require the inspections.  
*Thorough examination for crown block Pad Eyes.*  
*Visually Check and MPI as per ASTM E709 & AWS D1.1 & API RP 7L*

#### PROCEDURE

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

**\*\* CAT III Inspection Was Carried Out on DRAW WORKS and Found Accepted at The Time of Inspection.**

Remarks:

CAT III Inspection Was Carried Out on A Draw Works and Found Accepted at The Time of Inspection.

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#### DRAW WORKS Disc Brake SYSTEM S/N 11-18



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#### Disc Brake System Draw Works



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#### Pins Disc Brake Draw Works



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**Draw works Hydraulic Disc Brake System**

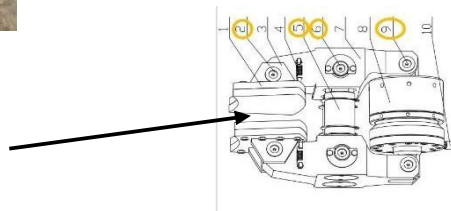
Description	OEM Max allowable clearance	Actual Value mm	Result
The Actual Value for Hole at Disc Brake System – 5	0.5 mm	80.029 mm	Pass
The Actual Value for Pin at Disc Brake System – 5		80.011 mm	Pass
The Max allowable clearance related Dimension		0.018 mm	Pass
The Actual Value for Hole at Disc Brake System – 5	0.5 mm	80.026 mm	Pass
The Actual Value for Pin at Disc Brake System – 5		80.016 mm	Pass
The Max allowable clearance related Dimension		0.010 mm	Pass
The Actual Value for Hole at Disc Brake System – 5	0.5 mm	80.020 mm	Pass
The Actual Value for Pin at Disc Brake System – 5		80.010 mm	Pass
The Max allowable clearance related Dimension		0.010 mm	Pass
The Actual Value for Hole at Disc Brake System – 5	0.5 mm	80.024 mm	Pass
The Actual Value for Pin at Disc Brake System – 5		80.013 mm	Pass
The Max allowable clearance related Dimension		0.011 mm	Pass



4.2.3 Install integrally to the drawworks.

**Installation alignment requirements:**

- (1) Space between outer circle of brake disc and inner circle of caliper support arm shall be uniform (3-5mm), any interface with caliper support arm shall not be permitted.
- (2) Caliper support arm shall be in parallel with and aligned with the brake disc, the deviation shall be ±1mm.
- (3) Brake pad shall be covered within the brake disc. The maximum wear value for all the hole and pins of the brake caliper should not exceed 0.5mm.
- (4) All brake pads shall be parallel and fully contacted to the brake disc, contact face shall not be less than 75%.



**Remarks:**

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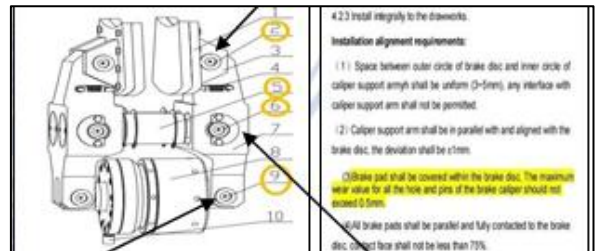


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#### Caliper For Hydraulic Disc Brake System

Description	OEM Max allowable clearance	Actual Value mm	Result
The Actual Value for Hole at Direct Acting - 2	0.5 mm	42.023 mm	Pass
The Actual Value for Pin at Direct Acting - 2		42.012 mm	Pass
The Max allowable clearance related Dimension		0.011 mm	Pass
The Actual Value for Hole at One-Way-Valve - 6	0.5 mm	42.033 mm	Pass
The Actual Value for Pin at One-Way-Valve - 6		42.011 mm	Pass
The Max allowable clearance related Dimension		0.022 mm	Pass
The Actual Value for Hole at One-Way-Valve - 9	0.5 mm	33.033 mm	Pass
The Actual Value for Pin at One-Way-Valve - 9		33.013 mm	Pass
The Max allowable clearance related Dimension		0.020 mm	Pass



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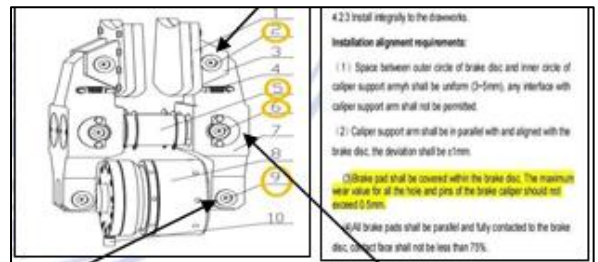


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#### Caliper For Hydraulic Disc Brake System

Description	OEM Max allowable clearance	Actual Value mm	Result
The Actual Value for Hole at Direct Acting - 2	0.5 mm	42.037 mm	Pass
The Actual Value for Pin at Direct Acting - 2		42.014 mm	Pass
The Max allowable clearance related Dimension		0.023 mm	Pass
The Actual Value for Hole at One-Way-Valve - 6	0.5 mm	42.029 mm	Pass
The Actual Value for Pin at One-Way-Valve - 6		42.017 mm	Pass
The Max allowable clearance related Dimension		0.012 mm	Pass
The Actual Value for Hole at One-Way-Valve - 9	0.5 mm	33.028 mm	Pass
The Actual Value for Pin at One-Way-Valve - 9		33.015 mm	Pass
The Max allowable clearance related Dimension		0.013 mm	Pass



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