



## MAST CAT III INSPECTION REPORT

<b>Customer:</b>	DAQING DRILLING COMPANY	<b>Date of inspection:</b>	23.04.2025
<b>Location:</b>	DQ1202	<b>Report No:</b>	QC-B-04-25-0230
<b>Type of Inspection:</b>	CAT III Inspection.	<b>Specification:</b>	API RP 4G



**INSPECTION RIG: DQ1202**

AI TAKAMUL COMPANY Would Like to Thank You for Giving Us the Opportunity to Work With  
You Honorable Company

**Inspector:** Mohamed Magdy

Mohamed Abdulla

**Customer Reprehensive :**





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### PROCEDURE

Equipment:	Mast
Product Type:	JJ450/ 46-.5-K
SN:	20019
Manufacture:	CHINA PETROLUME LIAOHE EQUIPMENT COMPANY.
Ref Standard:	API RP 4G
Date Of Manufacture:	12.2020

**The Rig Was Equipped with China Petroleum Equipment CO. LTD. Mast With**

**The Following Specification**

QTY:	01
MAX RATED STATIC HOOK LOAD	4500 KN (495 Sort tons)
CLEAR HIGHT	46.5 m 152 ft
BASE SPAN / TOP SPAN	10.0 m/2.5 m 32.8 ft/8.2 ft
RACKING PLATFORM WORK HEIGHT (1 <sup>ST</sup> ) x (2 <sup>ND</sup> ) x (3 <sup>RD</sup> )	26.5 M (87 ft) x 25.5 M (84 ft) x 24.5 m (81 ft)
UN- EXPECTED WORKING CONDITION :	30.7 m/s 60 knots
RATED CAPACITY OF PIPE RACKED	18044 ft 5500 m
INSTALIATION WORKING CONDITION:	16.5 m/s 32 Knots
WEIGHT:	118450 KG 261137 lbs

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### PROCEDURE

**The Products Have Been Inspected and Found Them Conformable to Relevant**

The Rig was equipped with BAOJI OIL FIELD MACHINERYCO.LTD, MAST with following specification

***Mast was found partly stripped down /dismantled condition for CAT III Inspection.***

- 1- Thoroughly visual inspection of all load bearing members, welds and pick up points must be conducted to determine the condition of the mast
- 2- Manufacture Name Plate In A Place, All Specification Of Mast Were Obtained From Attached Manufacture Manual and Manufacture Certificate.
- 3- Thoroughly visual examination and MPI on the mast connecting and supporting pad eyes and found free from any cracks, undercuts, porosity, concavity and any other possible Deficiencies.
- 4- Thoroughly visual examination and MPI on the DS/ODS A-leg intermediate derrick connecting blocks ASSY
- 5- Thoroughly visual examination and MPI on the DS/ODS A-leg back side derrick connecting blocks ASSY
- 6- Thoroughly visual examination and MPI on All loading and connecting Pins. They were Thoroughly Cleaned and Inspected for Signs of Corrosion, Excessive Wear, Stretching, Bending, cracks, and fatigues.
- 7- All the mast connecting and lifting pad eyes were sequentially marked with Hard stenciled
- 8- Thoroughly visual examination and MPI on All the mast lifting blocks and their load pins
- 9- Thoroughly visual examination and MPI for stand pipe manifold welding areas.

**Remarks:**

*Detailed reports are attached detailing all readings and results in -03 of 08-- pages.*

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MAST			
1. Legs			
a)	D.S front leg		
Condition	Accepted	Rejected	Remarks
Symmetry	√		Check at regular frequencies
Visible damage	√		Check at regular frequencies
Pin condition	√		Check at regular frequencies
Pin hole conditions	√		Check at regular frequencies
Safety pins / keepers	√		Check at regular frequencies
B)ODS Front leg			
Symmetry	√		Check at regular frequencies
Visible damage	√		Check at regular frequencies
Pin condition	√		Check at regular frequencies
Pin hole conditions	√		Check at regular frequencies
Safety pins / keepers	√		Check at regular frequencies
c)rear leg D.S			
Symmetry	√		Check at regular frequencies
Visible damage	√		Check at regular frequencies
Pin condition	√		Check at regular frequencies
Pin hole conditions	√		Check at regular frequencies
Safety pins / keepers	√		Check at regular frequencies

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D)rear leg O.D.S			
Symmetry	√		Check at regular frequencies
Visible damage	√		Check at regular frequencies
Pin condition	√		Check at regular frequencies
Pin hole conditions	√		Check at regular frequencies
Safety pins / keepers	√		Check at regular frequencies
No of visible marks applied	√		Check at regular frequencies
2)A-Legs or raising assembly.			
Symmetry	√		Check at regular frequencies
Visible damage	√		Check at regular frequencies
Legs straightness	√		Check at regular frequencies
Pins conditions	√		Check at regular frequencies
Pins holes conditions	√		Check at regular frequencies
Safety pins / keepers	√		Check at regular frequencies
Feet condition	√		Check at regular frequencies
Break over sheave condition	√		Check at regular frequencies
Bridle line anchor	√		Check at regular frequencies
Bridle line sheave and shaft condition	√		Check at regular frequencies
Number of visible marks applied	√		Check at regular frequencies
5)Crown support beams.			
Beam straight	√		Check at regular frequencies
Pins & bolts	√		Check at regular frequencies
Safety pins / keepers	√		Check at regular frequencies
Welds	√		Check at regular frequencies

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### 6)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

### 7)Ladders

Vertical rails straightness	√		Check at regular frequencies
Rails in alignment	√		Check at regular frequencies
Ladders stand offs	√		Check at regular frequencies
Standoff connections	√		Check at regular frequencies
Rail welds	√		Check at regular frequencies
Rungs	√		Check at regular frequencies
Rungs welds	√		Check at regular frequencies
Rung spacing	√		Check at regular frequencies
Access at rig floor	√		Check at regular frequencies
Cage	N/A		N/A
Toe clearance	√		Check at regular frequencies
Number of visible marks applied	√		Check at regular frequencies

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### 8) Raising, telescoping and guying assemblies

#### Hydraulic system

Raising ram condition	√		Check at regular frequencies
Hose and hose ends	√		Check at regular frequencies
Connections	√		Check at regular frequencies

#### Guy line anchorage

Anchors and dead man	N/A		N/A
Turnbuckles	N/A		N/A
Cable clamps	N/A		N/A
Guy line condition	N/A		N/A
Number of visible marks applied	N/A		N/A

### 9) Tongue counterweight

Guides	√		Check at regular frequencies
Weight device	√		Check at regular frequencies
Sheaves / shafts	√		Check at regular frequencies
Wire lines	√		Check at regular frequencies
Cable clamps	√		Check at regular frequencies
Welds	√		Check at regular frequencies
Number of visible marks applied	√		Check at regular frequencies

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10) miscellaneous sheave assemblies			
Clevis & shackles	√		Check at regular frequencies
Mast pad eyes	√		Check at regular frequencies
Sheaves	√		Check at regular frequencies
Bearings	√		Check at regular frequencies
Shafts	√		Check at regular frequencies
Sheave bolt	√		Check at regular frequencies
Side plate bolts	√		Check at regular frequencies
Bolt safety pins	√		Check at regular frequencies
Grease fittings	√		Check at regular frequencies
Safety lines	√		Check at regular frequencies

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# JJ450/46.5-K 井架

## SERIAL NUMBER MAST

最大静荷载 MAX. RATED STATIC HOOKLOAD 井架工件高度 (钻台面至天车梁底面) CLEAR HEIGHT 井架底跨 BASE SPAN 井架顶跨 TOP SPAN 二层台工作高度 RACKING PLATFORM WORK HEIGHT 第一位置 (1ST) 第二位置 (2ND) 第三位置 (3RD) 产品规范等级 PRODUCT SPECIFICATION LEVELS 二层台立管容量 (5"28mm立管) RATED CAPACITY OF PIPE RACKED 验证载荷试验 PROOF LOAD TEST	4500 kN 495 short tons 46.5 m 152 ft 10 m 32.8 ft 2.5 m 8.2 ft 26.5 m (87 ft) 25.5 m (84 ft) 24.5 m (81 ft) PSL <input type="checkbox"/> PSL <input type="checkbox"/> 5500 kg 18044 ft SR2-1.0	井架抗风能力 WIND LOADING 作业工况 OPERATION WORKING CONDITION 不可预期工况 UN-EXPECTED WORKING CONDITION 预期工况 EXPECTED WORKING CONDITION 安装工况 INSTALLATION WORKING CONDITION 全套井架重量 TOTAL WEIGHT CAUTION: Acceleration or impact loading, also setback rods, and wind loads will reduce the maximum rated static hook load capacity. 注意: 加速度或冲击, 以及 upset 立杆, 抽油杆和风电均会降低最大额定静钩载能力 基面到钻台高度 10.5 m (34.5 ft) DRILLFLOOR IS 10.5m [34.5ft] ABOVE GROUND
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Rated Static Hook Load (kN) vs Wind Velocity (Knots) graph showing a peak load of 4500 kN at 32 knots, with a dashed line indicating the 75 knot limit.

出厂编号  
 SERIAL No. 20018

制造日期  
 DATE OF MANUFACTURE 12-2011

中华人民共和国  
渤海装备辽河钻采装备分公司

THE PEOPLE'S REPUBLIC OF CHINA  
CHINA PETROLEUM LIAOHE EQUIPMENT COMPANY

地址: 中国 辽宁省 盘锦市 兴隆台区 经济开发区高新技术产业园  
HIGH-TECH INDUSTRIAL PARK, XINGLONGTAI DISTRICT, PANJIN CITY, LIAONING PROVINCE, CHINA

API Spec 4F  
Fourth Edition  
Cert. No. 4F-0320

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