



## SUBSTRUCTURE CAT III INSPECTION REPORT

<b>Customer:</b>	Zhongman Petroleum Engineering Technology Service (Hong Kong) Co. Limited Iraq Branch	<b>Date Of Service:</b>	18.05.2024
<b>Type Of Inspection:</b>	CAT III INSPECTION	<b>Report No:</b>	QC-ZPEC-05-24-0161/01
<b>Rig &amp; Location:</b>	ZPEC Rig 25	<b>Specification:</b>	API RP 4G


The Rig was equipment with ZHONGMAN PETROEUM EQUIPMENT (SHANGHAI)CO. LTD. Substructure with the following Specification:

Equipment:	Substructure
Model:	DZ450/10.5-S2
SN:	1209102
Ref Standard:	API RP 4G
Marker & Date of Manufacture:	3H (SHANGHAI) PETROEUM EQUIPMENT CO. LTD
MAXIMUM RATED STATIC HOOKLOAD:	450 KN,496 SHORT TONS
MAXIMUM RATED STATIC ROTARY CAPACITY:	
MAXIMUM RATED PIPE SETBACK CAPACITY:	2200 KN,234 SHORT TONS
ELEVATION OF BASE OF SUBSTRUCTURE ABOVE GROUND USED IN DESIGN FOR WIND LOADING:	10M,33FT
MAXIMUM COMBINED RATED STATIC ROTARY AND PIPE SETBACK CAPACITY:	4500+2200KN, 496+243 SHORT TONS
MAXIMUM COMBINED RATED STATIC CAPACITY AND RATED SETBACK CAPACITY:	4500+2200KN, 496+243 SHORT TONS
NEXT EXAMINATION:	AFTER 2 YEARS

### PROCEDURE

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

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

<b>ASNT Level II Inspector Name:</b>	<b>Authenticating This Report:</b>	<b>Signature &amp; Stamp:</b>	<b>Date of Next Through Examination:</b>
Khaled Mahmoud	Mohamed Abdalla		17.05.2026

REV: 01 Dated: 20 June 2022





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### PROCEDURE

SUBSTRUCTURE was found Partly stripped down / dismantled condition for CAT III Inspection.

A thorough visual inspection of all load bearing members, welds and pickup points must be conducted to determine the condition of the mast.

All repairs to major damage require supervision of a Professional Engineer or an OEM agent. Repairs to minor damage may be completed by operating personnel. After consulting with the field support manager, and do not require certification. If there is any question as to whether the damage is major or minor, a Professional Engineer or OEM agent shall be consulted.

Check the condition and content of the manufacturer's name plate.


Prepare and submit the inspection report.

Thoroughly Visual Examination and MPI On Supporting Pad Eyes DS & ODS. Against Any Cracks, Undercuts, Concavity and Any Other Possible Deficiencies.

Thoroughly Visual Examination and MPI On the Mast Connecting Members & Braces Against Any Cracks Undercuts, Porosity, Concavity and Any Other Possible Deficiencies

Thoroughly Visual Examination for All Loading and Connecting Pins. They Were Thoroughly Cleaned And Inspected for Signs of Corrosion, Excessive Wear, Stretching, Bending, Cracks and Fatigues

Thoroughly Visual Examination for Hydraulic Hoses & Hydraulic Cylinder.

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### SUBSTRUCTURE

01- Shoes			
Condition	Accepted	Rejected	Remark
Pin connections	✓		Check at regular frequencies
Pin holes	✓		Check at regular frequencies
Bolt connections	✓		Check at regular frequencies
Bolt holes	✓		Check at regular frequencies
Pins / bolts	✓		Check at regular frequencies
Safety pins	✓		Check at regular frequencies
Support beams	✓		Check at regular frequencies
Welds	✓		Check at regular frequencies
No of visible marks applied	✓		Check at regular frequencies
02- Floor Area			
Floor plates	✓		Check at regular frequencies
Handrails, and toe boards	✓		Check at regular frequencies
Handrails connections	✓		Check at regular frequencies
Setback material	✓		Check at regular frequencies
Floor bracing	✓		Check at regular frequencies
Welds	✓		Check at regular frequencies
No of visible marks applied	✓		Check at regular frequencies
03- Sub – spreaders and rotary beams			
Rotary beams	✓		Check at regular frequencies
Spreaders	✓		Check at regular frequencies
Pin connections	✓		Check at regular frequencies
Pin holes	✓		Check at regular frequencies
Pins	✓		Check at regular frequencies
Pad eyes	✓		Check at regular frequencies
Welds	✓		Check at regular frequencies
No of visible marks applied	✓		Check at regular frequencies
04- Dead line anchor mounting			
Supports	✓		Check at regular frequencies
Bolts	✓		Check at regular frequencies
Flooring	✓		Check at regular frequencies
Break over assy.	✓		Check at regular frequencies
Handrails	✓		Check at regular frequencies
Welds	✓		Check at regular frequencies
No of visible marks applied	✓		Check at regular frequencies

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### SUBSTRUCTURE

#### 05- Substructure components

Condition	Accepted	Rejected	Remark
Beams straight	√		Check at regular frequencies
Cross braces	√		Check at regular frequencies
Pins/ bolts holes	√		Check at regular frequencies
Pins / bolts	√		Check at regular frequencies
Safety pins	√		Check at regular frequencies
Pull back posts	√		Check at regular frequencies
Draw works tie down	√		Check at regular frequencies
Welds	√		Check at regular frequencies
BOP anchor pad eyes	√		Check at regular frequencies
Pad eyes	√		Check at regular frequencies
Number of visible marks applied	√		Check at regular frequencies

#### 01- Floor Erea

Pin connections	√		Check at regular frequencies
Pin holes	√		Check at regular frequencies
Pins	√		Check at regular frequencies
Wire lines	√		Check at regular frequencies
Sheaves	√		Check at regular frequencies
Bearings & seals	√		Check at regular frequencies
Grease fittings	√		Check at regular frequencies
Hydraulic winches	√		Check at regular frequencies
Hydraulic cylinders	√		Check at regular frequencies
Hydraulic hoses	√		Check at regular frequencies
Cylinders hinges	√		Check at regular frequencies
Number of visible marks applied	√		Check at regular frequencies
Welds	√		Check at regular frequencies

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