



Client:	Hong Hua Oil& Gas Engineering Services Ltd		
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030



INSPECTION RIG: HH008

AI TAKAMUL COMPANY Would Like to Thank You for allowing Us to Work With
You Honorable Company

Inspection Date:	31-January-2025	Validity Date:	30-January-2030
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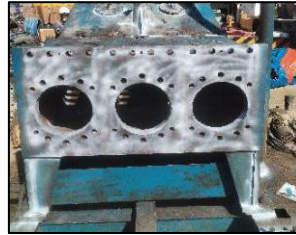
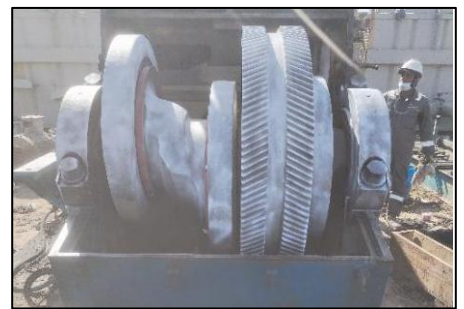
Inspector:	Mahmoud Ali	Operation Mangar:	Ahmed Abd Elkader
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Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-001
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Mud Pump # 3 Frame Assembly	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-002
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Mud Pump # 3 Ac Drilling Motor	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-003
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	3 EA Suction Cylinder Assembly Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

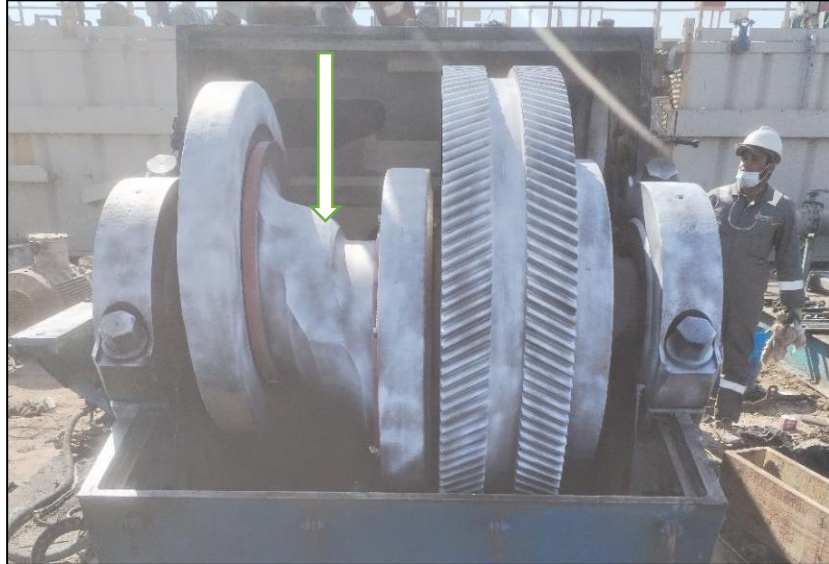
All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-004
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030
Serial Number	Description of the examined equipment		Result
12-159	Crankshaft Mud Pump # 3		Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

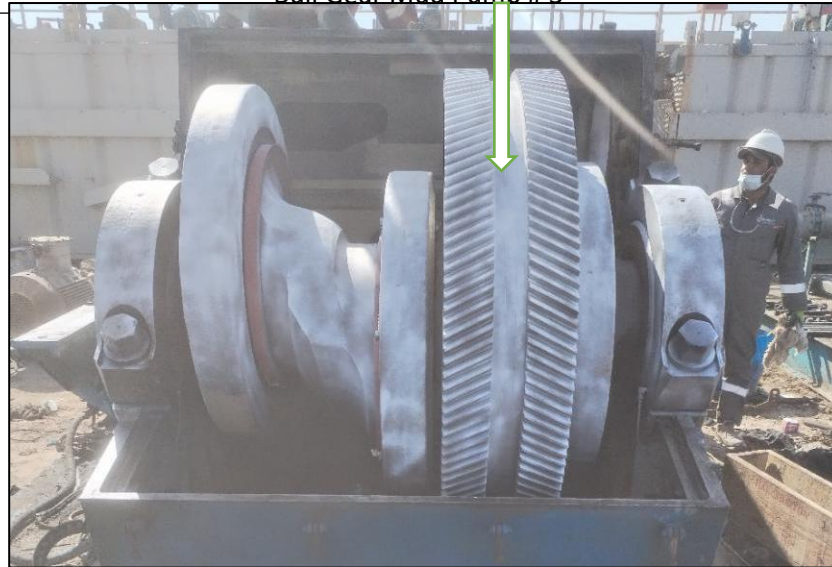
LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-005
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Bull Gear Mud Pump # 3	Pass



NDT Equipment Details					
Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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

NDT procedure	
Visual and MPI were carried out for the above description 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	
All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.	

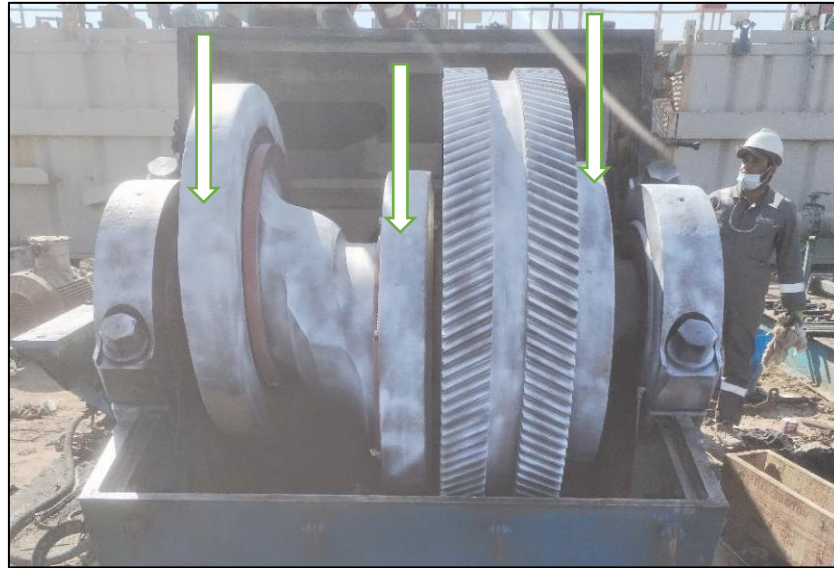
LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-006
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	3 EA Connection Rod Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

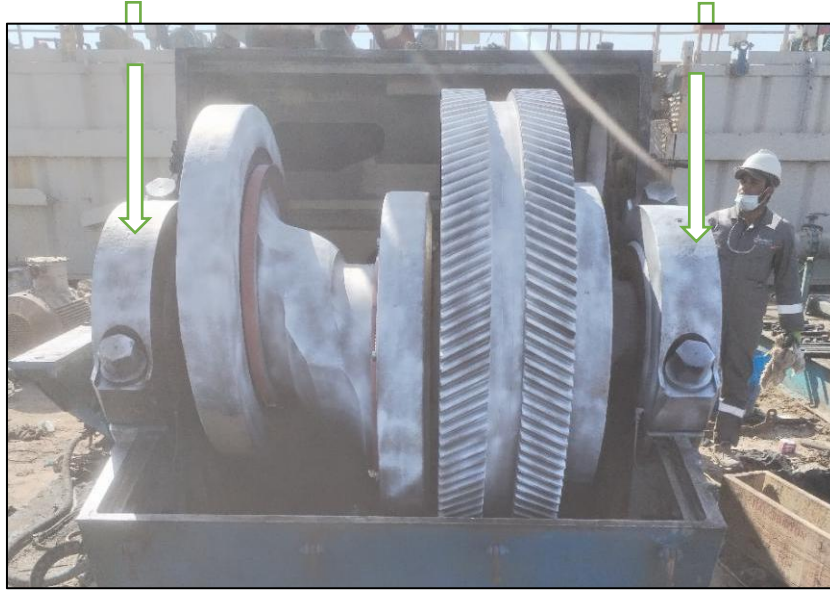
LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-007
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	2 EA Main Bearing Cap Mud Pump # 2	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-008
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Pinion Shaft Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

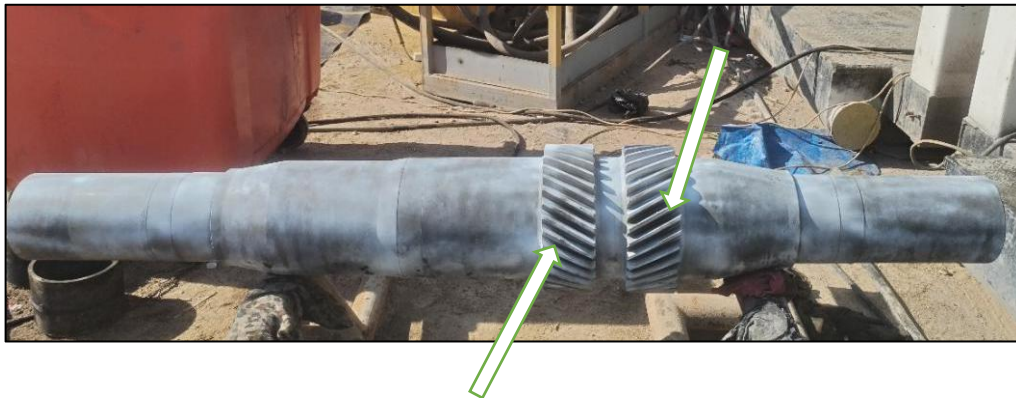
LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-009
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Gear of Pinion Shaft Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

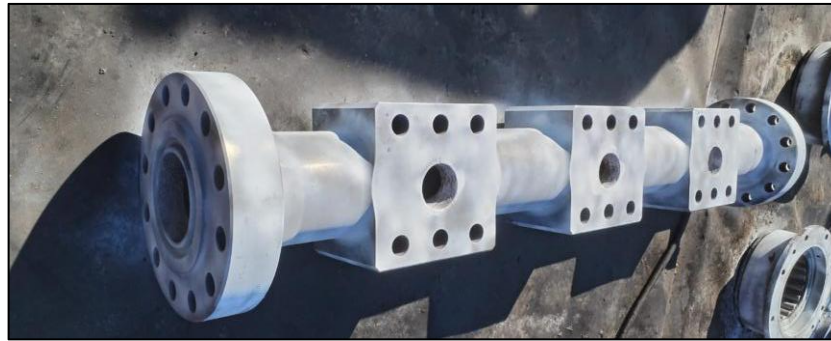
LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-010
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Discharge Pipeline Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report


Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-011
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	3 EA Liner Gland Mud Pump # 3	Pass



NDT Equipment Details					
Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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

NDT procedure
Visual and MPI were carried out for the above description 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
All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-012
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	3 EA Valve Cap Flange Suction End Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-013
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	3 EA Valve Cap Flange Discharge End Mud Pump # 3	Pass



NDT Equipment Details					
Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-014
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	3 EA Liner Seat Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-015
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Suction Pipe Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-016
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Discharge Five – Pass Assembly Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-017
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Airbag and bolt for Flang Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028/046
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	25-January-2025	Next Inspection Due:	24-January-2030
Serial Number	Description of the examined equipment		Result
1912009-M	Mud Pump Pulsation Dampener		Accept



NDT Equipment Details

Standard	ASTM E 709	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed per OEM's instructions, and OEM did the measurements.

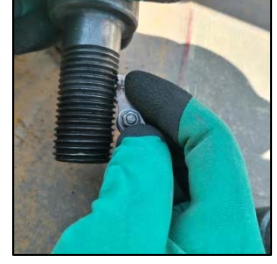
LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Khaled Mahmoud		Mohammed Abdulla	



Visual & Dye Penetrant Examination Report

Client:	Hong Hua Oil & Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028/047
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	25-January-2025	Next Inspection Due:	24-January-2030

Serial Number	Description of the examined equipment	Result
1912013	Pulsation Dampener Flange 4 1/16"	Accept



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Red Penetrant Manufacture:		Batch No:	008A009	Due Date	April.2026
Developer Manufacture:		Batch No:	008A103	Due Date	Jun.2026



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed per OEM's instructions, and OEM did the measurements.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Khaled Mahmoud		Mohammed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil & Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028/048
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	25-January-2025	Next Inspection Due:	24-January-2030

Serial Number	Description of the examined equipment	Result
1912013	Pulsation Dampener Flange 4 1/16"	Accept



NDT Equipment Details

Standard	ASTM E 709	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed per OEM's instructions, and OEM did the measurements.

LEE & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Khaled Mahmoud		Mohammed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-018
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Flang of Pressure Gauge Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-019
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	3 EA Valve Gland Suction End Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-020
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	3 EA Valve Gland Discharge End Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-021
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	3 EA Valve Cap Discharge End Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-022
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	3 EA Valve Cap Suction End Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-023
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	3 EA Cross Head Pin Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

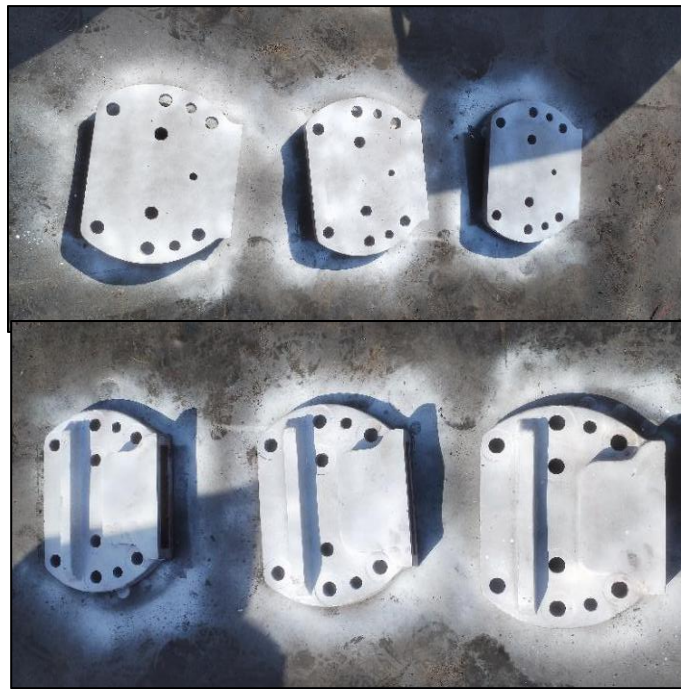
LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-024
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	3 EA Cross Head End Cover Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-025
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Seat of Pressure Gauge Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-026
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Filter Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-027
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Connection Plate Mud Pump # 3	Pass



NDT Equipment Details					
Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-028
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Pinion Shaft End Cover Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-029
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Blind Plate Mud Pump # 3	Pass



NDT Equipment Details					
Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-030
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Rotator Tray Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-031
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	2 EA Support Rod Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-032
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Suction Dampener Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-033
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	Sunshield Stand Mud Pump # 3	Pass





NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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

NDT procedure

Visual and MPI were carried out for the above description 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
All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

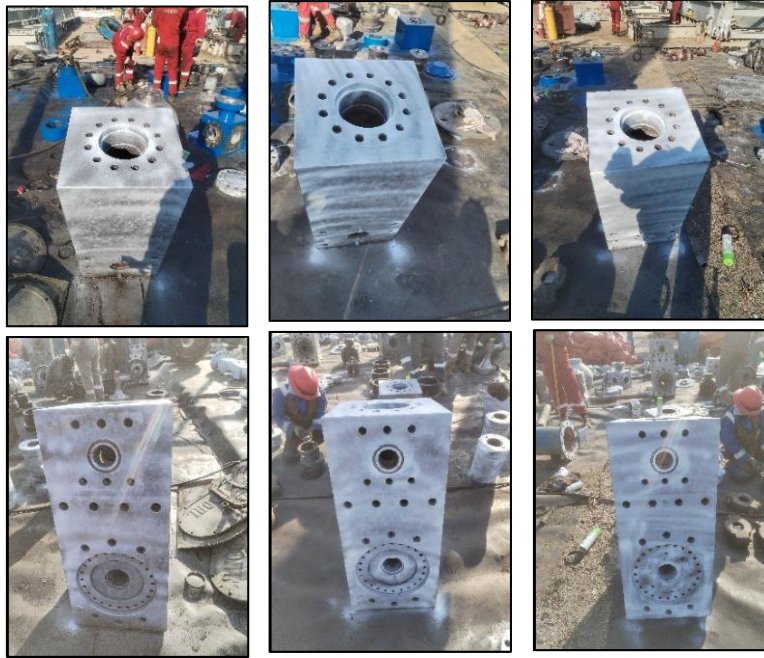
LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-035
Location:	HH Rig 029	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
12-159	3 EA Discharge Cylinder Assembly Mud Pump # 3	Pass



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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



NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	


ULTRASONIC FLAW DETECTION (UFD) CERTIFICATE

Certificate No: QC-HH-01-25-028-36	Location: HH Rig 008	UFD Inspection Date: 31-January-2025
Client: Hong Hua – Rig Number: HH008	Work order and/or Job No.: -	UFD Inspection Due Date: 30-January-2030
Item(s) to be inspected: MUD PUMP #3 MAIN SHAFT		
UFD Relative Standards/Specifications: API 8B and OEM Specification		Material: Carbon Steel
UFD Acceptance Criteria: API 8B and OEM Specification		Average Thickness: Solid Shaft with lubrication ways OD: 250 to 300mm

Ultrasonic Testing Equipment		Surface Condition: As machined and packaged
UFD Instrument - Maker: Sonatest Model: Site Scan D50 S. No.: I017374 Calibration Due Date: 23-June-2025		Surface Temperature: 29 C°
search unit(s) - Maker: Sonatest Models: STARC 4MHz (45°), STARC 4MHz (0°) S. Nos 33200 (70°), 40318 (0°) Sizes: 29 x 15mm (45°), 10 mm² (0°)		Sketch (direct on this page <input type="checkbox"/> / attached <input type="checkbox"/>) 
beam angle(s) used: 45° <input type="checkbox"/> 60° <input type="checkbox"/> 70° <input type="checkbox"/> Straight (normal) beam		
search unit cable(s) - type and length: LEMO 00 - LEMO 01 Single cable, 1m Length		
Couplant - brand name and/or type: Hydraulic oil		
Calibration Data		
Calibration block(s) identification: IIW - V1 Calibration Block	Damping, Reject Setting(s), if used: N/A	
Reference level gain (dB): 55.9 dB (45° Probe)	Scanning gain (dB): + 6db	
Reference reflector(s): side drilled holes (2.5mm)	Evaluating Method(s): 40 % FSH	
Distance reading(s): ½ skip, Full skip, 1 ½ skip	Sensitivity (Echo Amplitude as % FSH): 80 %	
Sound path length: 700 mm range.		

Observations

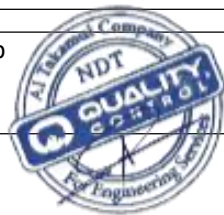
Location of Inspection (All accessible OD Surface)	
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 Serial Number: **1912009-M**
UFD Results

Item Number	Probe (degree, frequency)	Location/Side	ΔH (%)	Indication				Evaluation	Remarks – Results
				y	x	l	Depth		
1912009-M	0°(Normal), 4MHz	100% Of accessible OD surfaces	-	-	-	-	-	-	No defects found at the time of Inspection
	45°, 4MHz	100% Of accessible OD surfaces	-	-	-	-	-	-	No defects found at the time of Inspection

y: Distance from zero coordinates (vertically), x: Distance from zero coordinates (horizontally), l: Total length of indication(s), arrows indicate zero coordinates

- Comments:
- UFD by normal angle was carried out on OD Accessible surfaces for the item mentioned above and found free of any flaws or any relevant indication at the time of inspection
 - UFD by shear waves (45) was carried out on OD Accessible surfaces for the item mentioned above and found free of flaws or relevant indications at the time of inspection and after repair.
 - All dimensions are in mm

Inspector Name:	Mahmoud Ali	Reviewed by:	Mohammed Abdullah	Stamp 
Qualification:	ASNT LEVEL II MT & PT & UT	Date:	31-January-2025	
Signature:		Signature:		




ULTRASONIC FLAW DETECTION (UFD) CERTIFICATE

Certificate No: QC-HH-01-25-028-37	Location: HH Rig 008	UFD Inspection Date: 31-January-2025
Client: Hong Hua – Rig Number: HH008	Work order and/or Job No.: -	UFD Inspection Due Date: 30-January-2030

Item(s) to be inspected: MUD PUMP #3 PULSATION DAMPENER	
UFD Relative Standards/Specifications: API 8B and OEM Specification	Material: Carbon Steel
UFD Acceptance Criteria: API 8B and OEM Specification	Average Thickness: 80mm to 95mm OD: Variable

Ultrasonic Testing Equipment		Surface Condition: As machined and packaged
UFD Instrument - Maker: Sonatest Model: Site Scan D50 S. No.: I017374 Calibration Due Date: 23-June-2025		Surface Temperature: 29 C°

search unit(s) - Maker: Sonatest Models: STARC 4MHz (45°), STARC 4MHz (0°) S. Nos 33200 (70°), 40318 (0°) Sizes: 29 x 15mm (45°), 10 mm² (0°)	Sketch (direct on this page <input type="checkbox"/> / attached)
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beam angle(s) used: 45° <input type="checkbox"/> 60° <input type="checkbox"/> 70° <input type="checkbox"/> Straight (normal) beam		
search unit cable(s) - type and length: LEMO 00 - LEMO 01 Single cable, 1m Length		
Couplant - brand name and/or type: Hydraulic oil		
Calibration Data		
Calibration block(s) identification: IIW - V1 Calibration Block		Damping, Reject Setting(s), if used: N/A
Reference level gain (dB): 55.9 dB (45° Probe)	Scanning gain (dB): + 6db	
Reference reflector(s): side drilled holes (2.5mm)	Evaluating Method(s): 40 % FSH	
Distance reading(s): ½ skip, Full skip, 1 ½ skip	Sensitivity (Echo Amplitude as % FSH): 80 %	
Sound path length: 700 mm range.		

Observations

Location of Inspection (All accessible OD Surface)	
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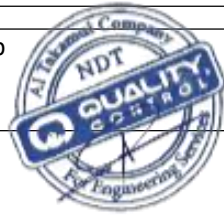
Serial Number: 1912008-M

UFD Results

Item Number	Probe (degree, frequency)	Location/Side	ΔH (%)	Indication				Evaluation	Remarks – Results
				y	x	l	Depth		
1912008-M	0°(Normal), 4MHz	100% Of accessible OD surfaces	-	-	-	-	-	-	No defects found at the time of Inspection
	45°, 4MHz	100% Of accessible OD surfaces	-	-	-	-	-	-	No defects found at the time of Inspection

y: Distance from zero coordinates (vertically), x: Distance from zero coordinates (horizontally), l: Total length of indication(s), arrows indicate zero coordinates

Comments:
 1. UFD by normal angle was carried out on OD Accessible surfaces for the item mentioned above and found free of any flaws or any relevant indication at the time of inspection
 2. UFD by shear waves (45) was carried out on OD Accessible surfaces for the item mentioned above and found free of flaws or relevant indications at the time of inspection and after repair.
 3. All dimensions are in mm

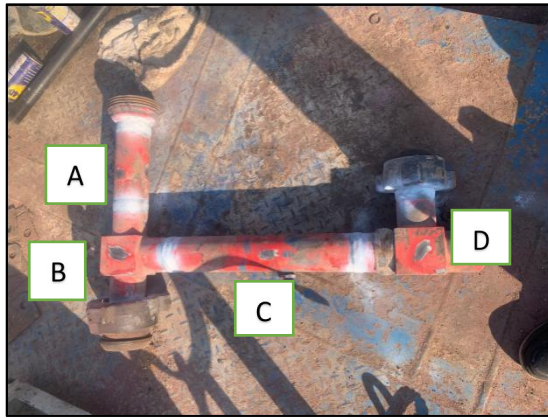
Inspector Name:	Mahmoud Ali	Reviewed by:	Mohammed Abdullah	
Qualification:	ASNT LEVEL II MT & PT & UT	Date:	31-January-2025	
Signature:		Signature:		



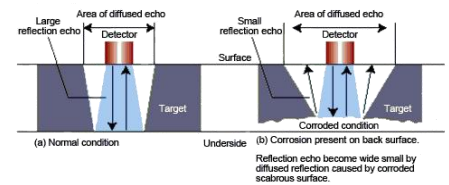
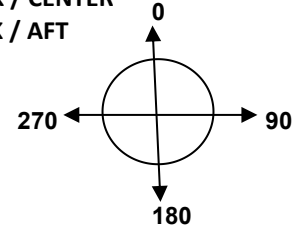
Visual & Magnetic Particles & Ultrasonic Thickness Gauging Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-038
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
3-02	3 " High Pressure Line (Mud Pump-3)	Accepted



A:12'O CLOCK / FORWARD
 B:3'O CLOCK / CENTER
 C:6'O CLOCK / AFT



ANGLES	UT WALL THICKNESS POSITION MEASURED IN MM								MINIMUM THICKNESS
	A	B	C	D	E	F	G	H	
0°	16.35	2-.75	16.13	20.82	-	-	-	-	A: 13mm C: 11mm B,D: 16mm
90°	16.86	21.34	16.16	21.83	-	-	-	-	
180°	16.59	20.79	16.76	20.56	-	-	-	-	
270°	15.90	20.98	16.57	21.90	-	-	-	-	

Equipment Details

Standard	ASTM E797 / ASTM E709	Specification:	H.H OEM Data Book	Method	WET
Yoke	Permanent	Serial No:	PY-09	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
Ultrasonic Thickness Meter	UT-1	Serial No:	5058444	Due Date	11.May.2025


INSPECTION EVALUATION

During UT all the readings are within the tolerance and accepted according to the abovementioned specification.

Visual and MPI were carried out for the above description 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:

Remarks: Minimum of Wall thickness Provided By H.H OEM

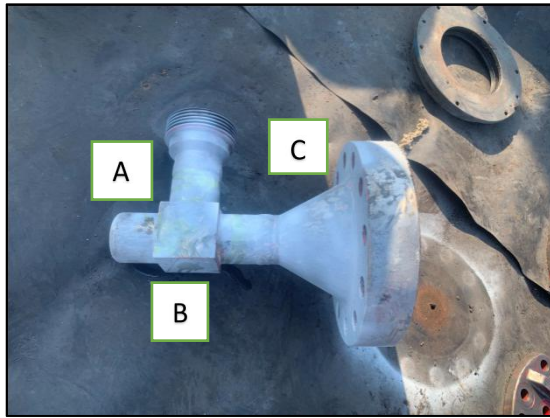
LEEA & ASNT Level II Inspector Name:	Signature	Authenticating This Report:	Signature
Mohamed Magdy		Mohamed Abdulla	



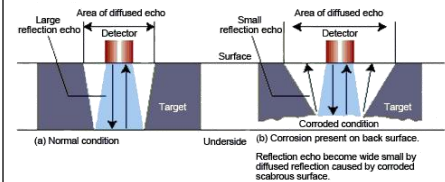
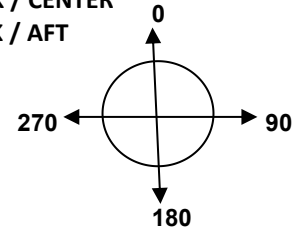
Visual & Magnetic Particles & Ultrasonic Thickness Gauging Report

Client:	Hong Hua Oil & Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-039
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
HH008-032	Flange (Mud Pump-3)	Accepted



A:12'O CLOCK / FORWARD
B:3'O CLOCK / CENTER
C:6'O CLOCK / AFT



ANGLES	UT WALL THICKNESS POSITION MEASURED IN MM								MINIMUM THICKNESS
	A	B	C	D	E	F	G	H	
0°	15.94	21.31	15.56	-	-	-	-	-	A,C:11mm B:16mm
90°	16.16	25.25	15.04	-	-	-	-	-	
180°	16.24	24.83	16.36	-	-	-	-	-	
270°	16.36	23.11	16.13	-	-	-	-	-	

Equipment Details					
Standard	ASTM E797 / ASTM E709	Specification:	H.H OEM Data Book	Method	WET
Yoke	Permanent	Serial No:	PY-09	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
Ultrasonic Thickness Meter	UT-1	Serial No:	5058444	Due Date	11.May.2025

INSPECTION EVALUATION

During UT all the readings are within the tolerance and accepted according to the abovementioned specification. Visual and MPI were carried out for the above description 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:

Remarks: Minimum of Wall thickness Provided By H.H OEM

LEEA & ASNT Level II Inspector Name:	Signature	Authenticating This Report:	Signature
Mohamed Magdy		Mohamed Abdulla	

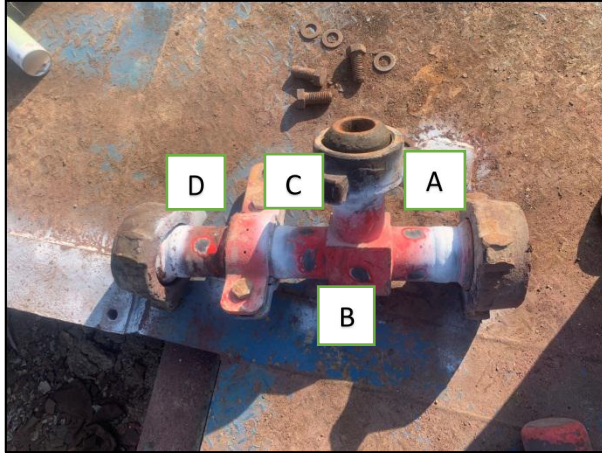




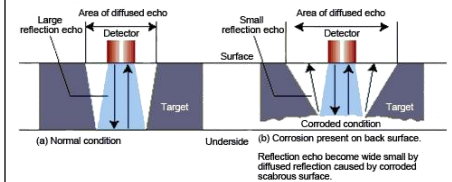
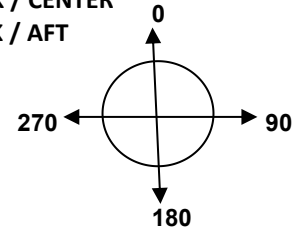
Visual & Magnetic Particles & Ultrasonic Thickness Gauging Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-040
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
HH008-034	3 " High Pressure Line (Mud Pump-3)	Accepted



A:12'O CLOCK / FORWARD
 B:3'O CLOCK / CENTER
 C:6'O CLOCK / AFT



ANGLES	UT WALL THICKNESS POSITION MEASURED IN MM								MINIMUM THICKNESS
	A	B	C	D	E	F	G	H	
0°	15.56	22.05	15.71	15.12	-	-	-	-	A,D: 13mm C: 11mm B: 16mm
90°	15.64	21.83	15.75	15.36	-	-	-	-	
180°	15.34	21.53	15.83	15.15	-	-	-	-	
270°	16.38	21.73	15.64	15.42	-	-	-	-	

Equipment Details					
Standard	ASTM E797 / ASTM E709	Specification:	H.H OEM Data Book	Method	WET
Yoke	Permanent	Serial No:	PY-09	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
Ultrasonic Thickness Meter	UT-1	Serial No:	5058444	Due Date	11.May.2025

INSPECTION EVALUATION
During UT all the readings are within the tolerance and accepted according to the abovementioned specification.
Visual and MPI were carried out for the above description 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:
Remarks: Minimum of Wall thickness Provided By H.H OEM

LEEA & ASNT Level II Inspector Name:	Signature	Authenticating This Report:	Signature
Mohamed Magdy		Mohamed Abdulla	

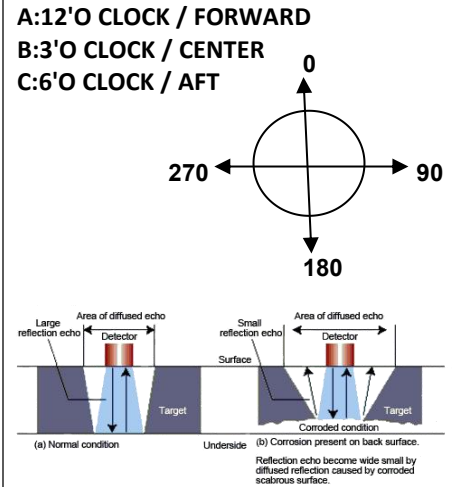
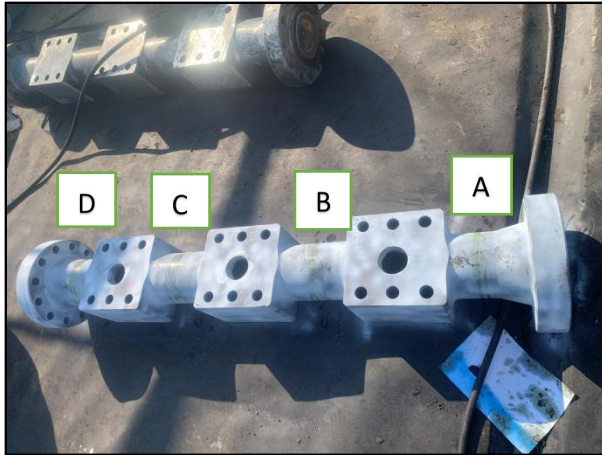




Visual & Magnetic Particles & Ultrasonic Thickness Gauging Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-041
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
HH008-037	Discharge Pipe Line (Mud Pump-3)	Accepted



ANGLES	UT WALL THICKNESS POSITION MEASURED IN MM								MINIMUM THICKNESS
	A	B	C	D	E	F	G	H	
0°	39.30	39.26	40	38.31	-	-	-	-	25mm
90°	38.78	37.70	38.26	38.11	-	-	-		
180°	38.37	36.48	36.56	37.67	-	-	-		
270°	38.85	36.59	38.41	37.48	-	-	-		

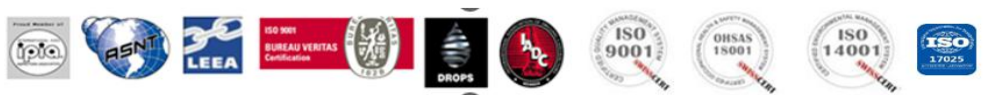
Equipment Details					
Standard	ASTM E797 / ASTM E709	Specification:	H.H OEM Data Book	Method	WET
Yoke	Permanent	Serial No:	PY-09	Due Date	11. May.2025
White Contrast	WCP-2	Batch No:	008A009	Due Date	April.2026
Black Ink	7HF	Batch No:	008A103	Due Date	Jun.2026
Ultrasonic Thickness Meter	UT-1	Serial No:	5202746	Due Date	11.May.2025

INSPECTION EVALUATION

During UT all the readings are within the tolerance and accepted according to the abovementioned specification.
 Visual and MPI were carried out for the above description 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:

Remarks: Minimum of Wall thickness Provided By H.H OEM

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	
Mohamed Magdy		Mohamed Abdulla	

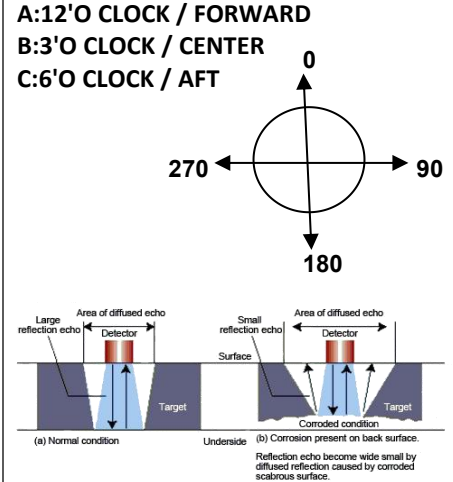
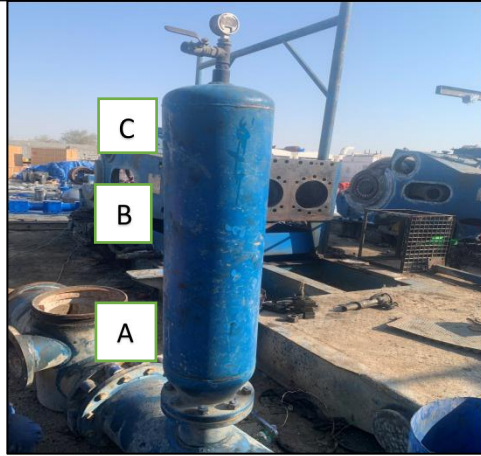




Visual & Magnetic Particles & Ultrasonic Thickness Gauging Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-042
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
HH008-033	Suction Dampener (Mud Pump-3)	Accepted





ANGLES	UT WALL THICKNESS POSITION MEASURED IN MM								MINIMUM THICKNESS
	A	B	C	D	E	F	G	H	
0°	11.67	11.74	11.93	-	-	-	-	-	7mm
90°	11.86	12.38	12.19	-	-	-	-		
180°	11.68	11.60	12.04	-	-	-	-		
270°	12.12	11.41	12	-	-	-	-		

Equipment Details					
Standard	ASTM E797 / ASTM E709	Specification:	H.H OEM Data Book	Method	WET
Yoke	Permanent	Serial No:	PY-09	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
Ultrasonic Thickness Meter	UT-1	Serial No:	5058444	Due Date	11.May.2025

INSPECTION EVALUATION

During UT all the readings are within the tolerance and accepted according to the abovementioned specification.
 Visual and MPI were carried out for the above description 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:
Remarks: Minimum of Wall thickness Provided By H.H OEM

LEEA & ASNT Level II Inspector Name:	Signature	Authenticating This Report:	Signature
Mohamed Magdy		Mohamed Abdulla	

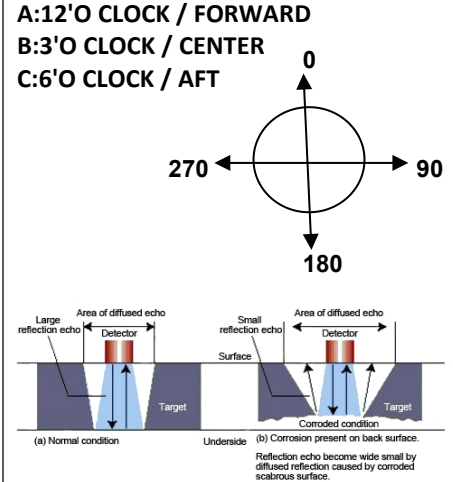
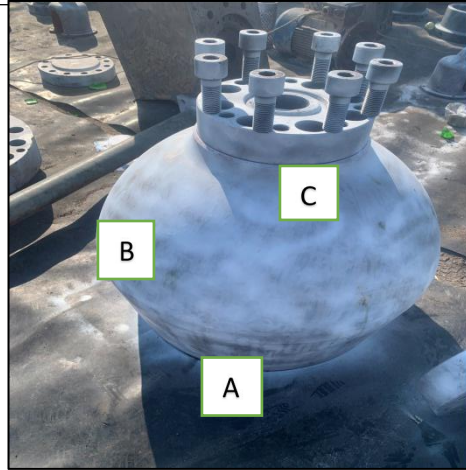




Visual & Magnetic Particles & Ultrasonic Thickness Gauging Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-043
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
HH008-03	Pulsation Dampeners (Mud Pump-3)	Accepted



ANGLES	UT WALL THICKNESS POSITION MEASURED IN MM								MINIMUM THICKNESS
	A	B	C	D	E	F	G	H	
0°	87.94	90.89	87.94	-	-	-	-	-	79mm
90°	87.73	91.98	89.53	-	-	-	-		
180°	86.76	90.34	88.13	-	-	-	-		
270°	84.57	91.76	87.67	-	-	-	-		

Equipment Details					
Standard	ASTM E797 / ASTM E709	Specification:	H.H OEM Data Book	Method	WET
Yoke	Permanent	Serial No:	PY-09	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
Ultrasonic Thickness Meter	UT-1	Serial No:	5058444	Due Date	11.May.2025



INSPECTION EVALUATION

During UT all the readings are within the tolerance and accepted according to the abovementioned specification.

Visual and MPI were carried out for the above description 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:

Remarks: Minimum of Wall thickness Provided By H.H OEM

LEEA & ASNT Level II Inspector Name:	Signature	Authenticating This Report:	Signature
Mohamed Magdy		Mohamed Abdulla	

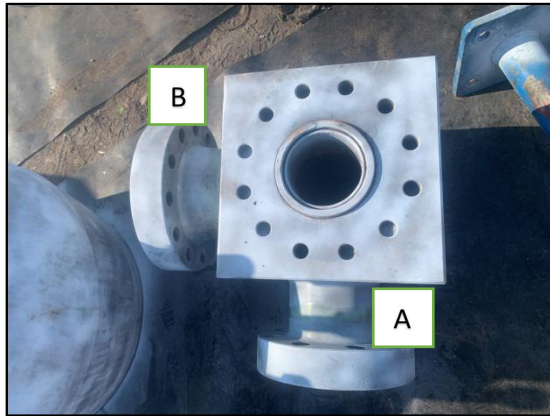




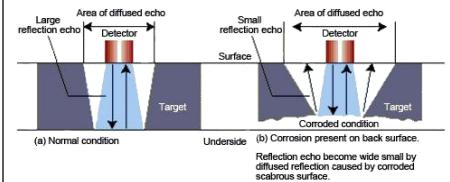
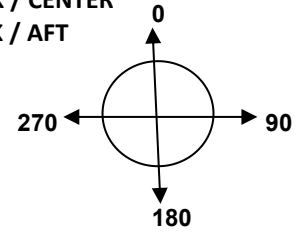
Visual & Magnetic Particles & Ultrasonic Thickness Gauging Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-044
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
HH008-035	Discharge Five-pass Assembly (Mud Pump-3)	Accepted



A:12'O CLOCK / FORWARD
B:3'O CLOCK / CENTER
C:6'O CLOCK / AFT



ANGLES	UT WALL THICKNESS POSITION MEASURED IN MM								MINIMUM THICKNESS
	A	B	C	D	E	F	G	H	
0°	41.11	43.22	-	-	-	-	-	-	25mm
90°	41.26	42.61	-	-	-	-	-		
180°	41.22	43.77	-	-	-	-	-		
270°	41.18	44.85	-	-	-	-	-		

Equipment Details

Standard	ASTM E797 / ASTM E709	Specification:	H.H OEM Data Book	Method	WET
Yoke	Permanent	Serial No:	PY-09	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
Ultrasonic Thickness Meter	UT-1	Serial No:	5058444	Due Date	11.May.2025

INSPECTION EVALUATION

During UT all the readings are within the tolerance and accepted according to the abovementioned specification.

Visual and MPI were carried out for the above description 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:

Remarks: Minimum of Wall thickness Provided By H.H OEM

LEEA & ASNT Level II Inspector Name:	Signature	Authenticating This Report:	Signature
Mohamed Magdy		Mohamed Abdulla	

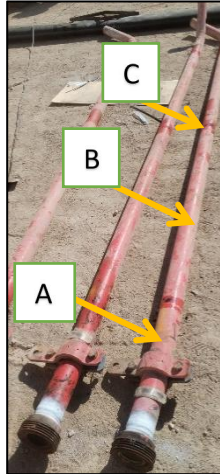




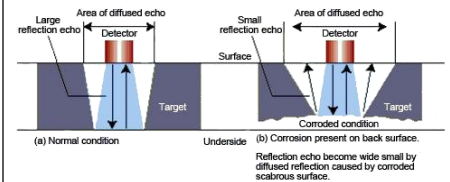
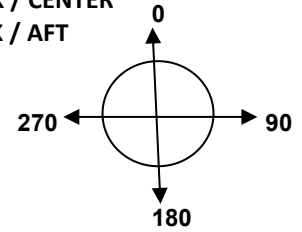
Visual & Magnetic Particles & Ultrasonic Thickness Gauging Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-028-045
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-028
Date of Examination:	31-January-2025	Next Inspection Due:	30-January-2030

Serial Number	Description of the examined equipment	Result
1-01	3 1/2" Bleed of Line (Mud Pump-3)	Accepted



A:12'O CLOCK / FORWARD
B:3'O CLOCK / CENTER
C:6'O CLOCK / AFT



ANGLES	UT WALL THICKNESS POSITION MEASURED IN MM								MINIMUM THICKNESS
	A	B	C	D	E	F	G	H	
0°	15.18	14.90	14.80	-	-	-	-	-	11 mm
90°	15.03	15.31	14.41	-	-	-	-		
180°	14.90	14.85	15.15	-	-	-	-		
270°	15.07	14.01	15.11	-	-	-	-		

Equipment Details

Standard	ASTM E797 / ASTM E709	Specification:	H.H OEM Data Book	Method	WET
Yoke	Permanent	Serial No:	PY-09	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
Ultrasonic Thickness Meter	UT-1	Serial No:	5058444	Due Date	11.May.2025



INSPECTION EVALUATION

During UT all the readings are within the tolerance and accepted according to the abovementioned specification.

Visual and MPI were carried out for the above description 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:

Remarks: Minimum of Wall thickness Provided By H.H OEM

LEEA & ASNT Level II Inspector Name:	Signature	Authenticating This Report:	Signature
Mohamed Magdy		Mohamed Abdulla	



Visual & Magnetic Particles Examination Report

Client:	Hong Hua Oil& Gas Engineering Services Ltd	Certificate no:	QC-HH-01-25-025-03
Location:	HH Rig 008	Job Order No:	QC-HH-01-25-025
Date of Examination:	31-January-2025	Next Inspection Due:	30-July-2025
Serial Number	Description of the examined equipment		Result
12-159	Mud Pump #3 Lifting Lugs		Accept
Lifting Lugs SN:	3-1, 3-2, 3-3, 3-4		



NDT Equipment Details

Standard	ASTM E 709	Viewing Condition:	Colored Media	Method	WET
Yoke	Permanent	Serial No:	PY-09	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


NDT procedure

Visual and MPI were carried out for the above description 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

All MPI was performed as per the instructions of OEM, and the measurements were done by OEM.

LEEA & ASNT Level II Inspector Name:	Signature:	Authenticating This Report:	Signature:
Mahmoud Ali		Mohamed Abdulla	