



ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

MAJOR SURVEY FOR COILED TUBING UNITS – MAJOR SURVEY REPORT



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Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





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Section 1 : Trailer



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Service Date:	30-November-2025	Trailer SN:	055104204U
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The CT5 Unit is Equipped with NOV Trailer, with The Following Specification:

Equipment:	437 Series Coiled Tubing Unit
Owner:	National Energy Services Reunited Corp. (NESR) / Iraq Branch
Unit Number:	CT5
Trailer Model	437D750
Trailer Serial Number	055104204U
Registration Plate Number:	111 Basra
Date of Manufacture:	-
Manufacturer:	NOV

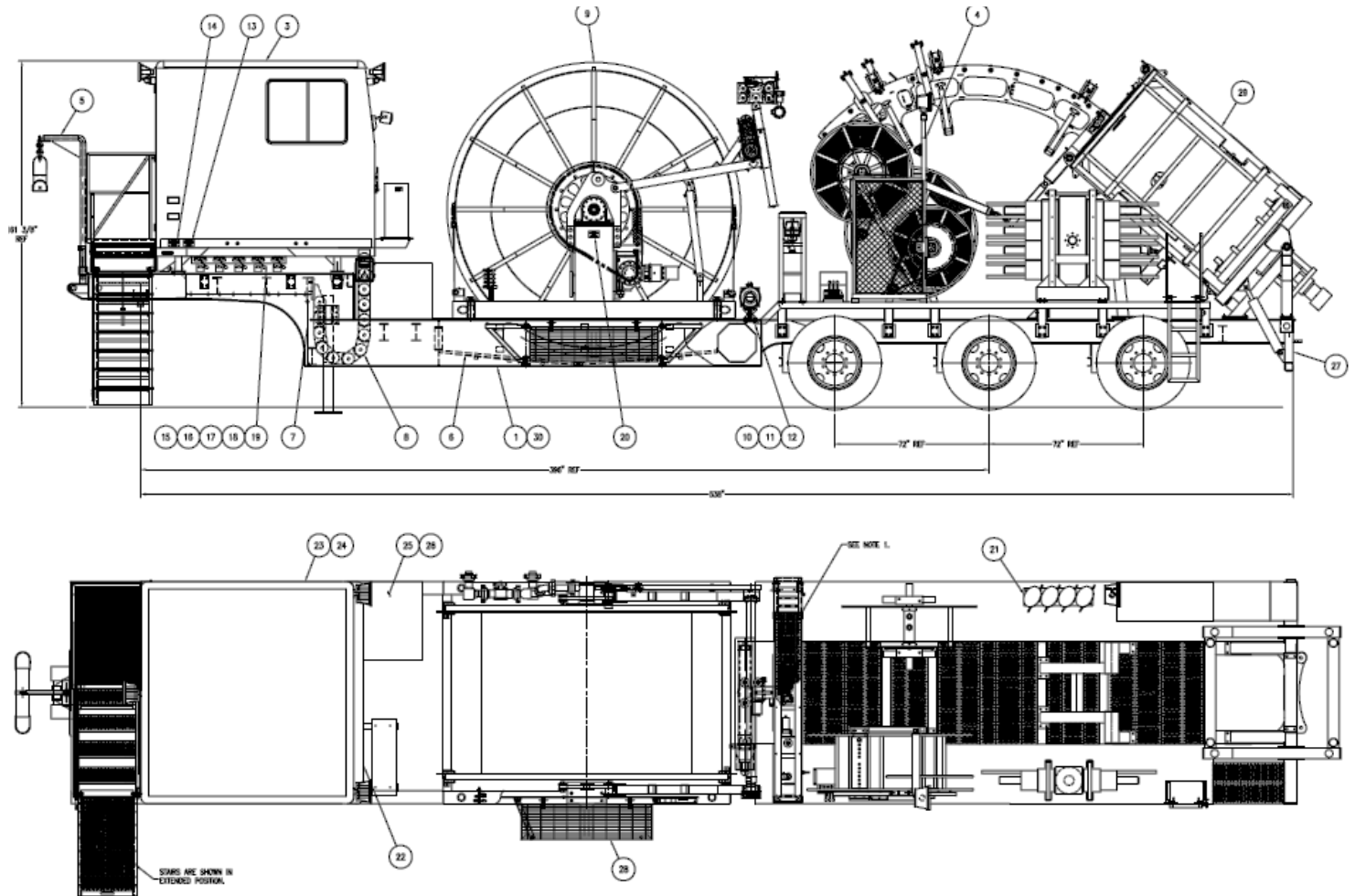


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ITEM	PART NO.	DESCRIPTION	QTY
1	437-D-603	TRAILER AS RECEIVED	1
2	437-D-680	INJECTOR MOUNT ASSEMBLY	1
3	437-D-820	CONTROL CAB MODULE ASSEMBLY	1
4	437-D-765	REAR DECK MODULE ASSEMBLY	1
5	427-D-114	HOSE GUIDE ASSEMBLY	1
6	437-D-614	DRIP PAN ASSEMBLY	1
7	437-D-615	TRAILER SPLASH GUARD ASSEMBLY	1
8	437-B-633	CABLE TRAY MOUNTING PLATE LOCATION	1
9	437-D-700	TUBING REEL MODULE ASSEMBLY	1
10	282-B-092	N2 BOTTLE MOUNT FABRICATION	1
11	282-B-600	N2 BOTTLE MOUNT BASE FABRICATION	2
12	260-B-099	N2 BOTTLE MOUNT VALVE GUARD	2
13	437-B-140	COIL TUBING UNIT S.N. LABEL	1
14	437-B-141	CONTROL CAB S.N. LABEL	1
15	282-B-147A	N2 BACKUP LABEL	1
16	282-B-345	ANNULAR PRESSURE CONTROL LABEL	1
17	282-B-344	ANNULAR PRESSURE LABEL	1
18	282-B-175	SKATE ACCUMULATOR BLEED LABEL	1
19	282-B-174A	BOP ACCUMULATOR BLEED LABEL	1
20	437-B-720	TUBING REEL S.N. LABEL	1
21	250-B-060	INJECTOR FOOT ASSEMBLY [QTY:4]	0
22	282-B-148	BOP SUPPLY LABEL	1
23	282-B-584	LABEL MOUNTING BRACKET	1
24	282-B-088	NON-INTRINSICALLY SAFE CONNECTIONS LABEL	1
25	437-D-821	TOOLBOX # 3 FABRICATION	1
26	437-B-622	TOOLBOX # 3 MOUNT	1
27	437-B-630	REAR BUMPER BULKHEAD	1
28	437-D-766	TRAILER SIDE PLATFORM	1
29	303-B-305	RT-100 INJECTOR MODULE ASSEMBLY	1
30	437-D-619	TRAILER MODIFICATION	1



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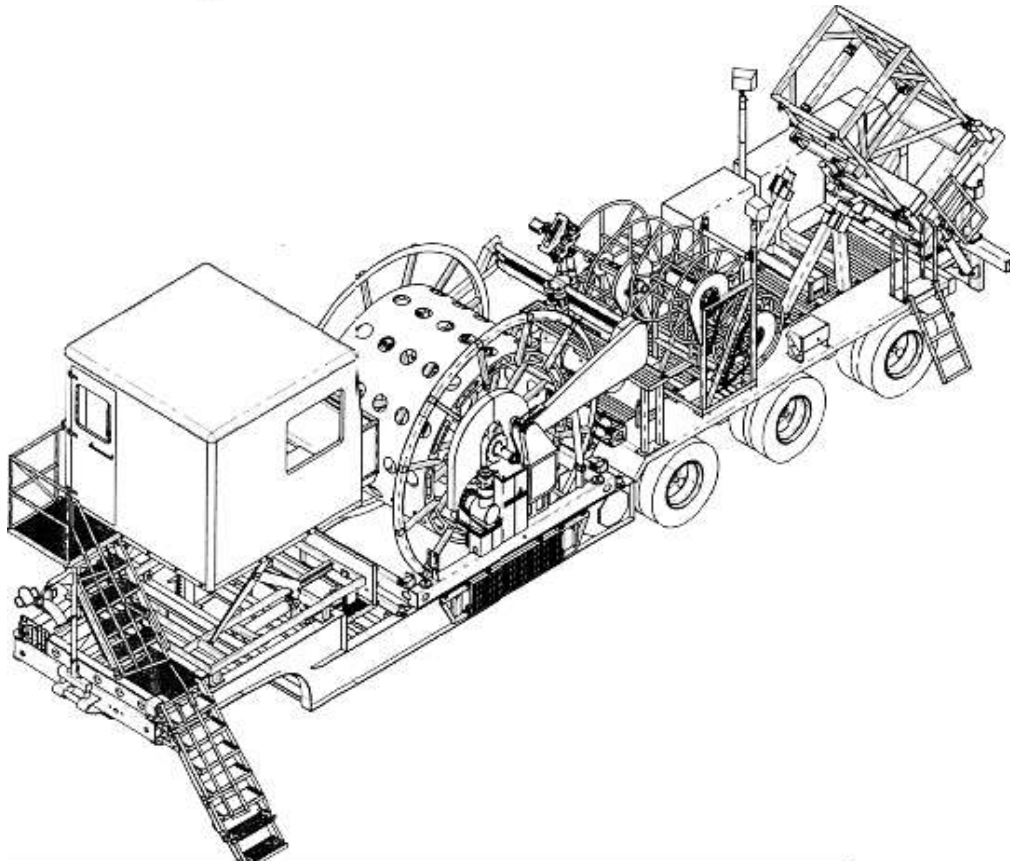
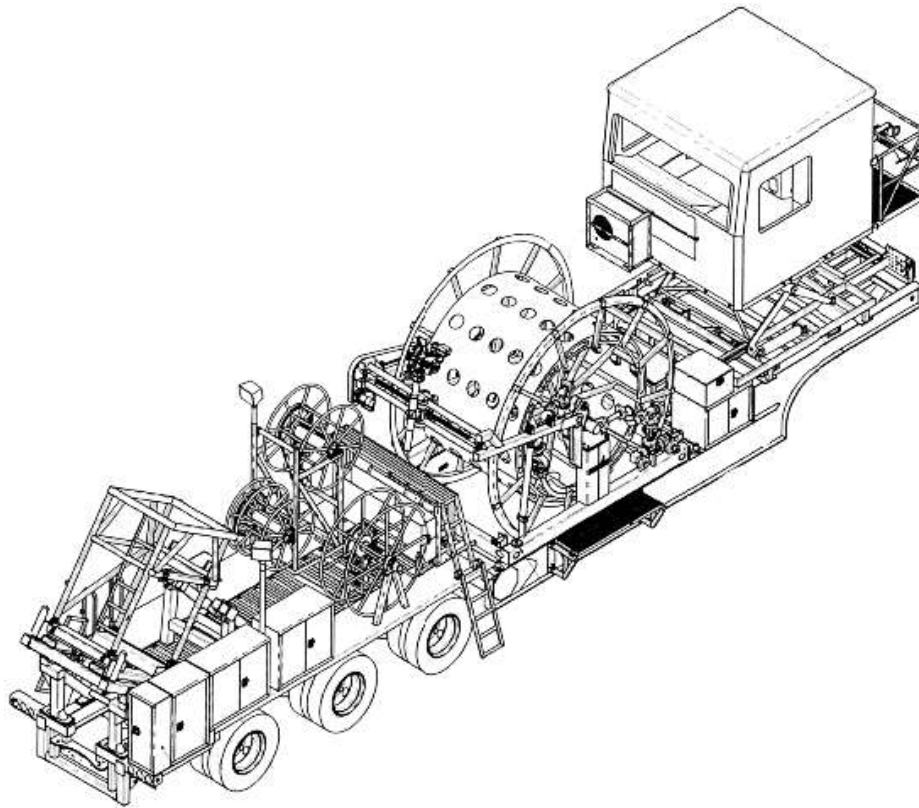


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Trailer Components - Inspection Procedure

- The CT5 Unit is Equipped with NOV Trailer, which have 3 rear axles, each of them has double wheel/tyre on each side.
- The trailer found equipped with 2 front landing gears without any leveling jacks

Action	Status
1. Properly clean and wash the trailer, chassis and axles	Done
2. Replace the power hoses, injector control hoses, BOP hoses, and the trailer bulkhead hoses	Done
3. Raise the trailer rear side by hydraulic and mechanical jacks	Done
4. Dismantle the wheels / hubs / flanges/ bearings, and the other axles accessories	Done
5. Dismantle the brake shoes/ brake chambers/ springs/ Drums/and other brake parts / accessories	Done
6. Dismantle the air bags, shock absorbers, and other suspension system parts	Done
7. Dismantle the bad condition tyres / Studs/ Nuts and other accessories	Done
8. Inspect for air leaks and bad condition hoses / fittings	Done
9. Dismantle and segregate the bad condition accessories / parts	Done
10. Prepare and submit the inspection report and inform the client to arrange spare parts accordingly	Done
11. Receive and install the new spare parts	Done
12. Connect the air hose of the head truck or other truck to the trailer gladhand to start final inspection	Done
13. Check for any pressure drop or any sound of air leakage and repair – if any.	Done
14. Inspect the electrical system and the trailer lights, then replace damaged parts -if any-	Done
15. Connect the CT5 trailer to the CT6 Head truck and conduct the functional and operational tests. Check all operations and movements, and check for any abnormal observations or leaks	Done
16. Advanced cleaning and preparation for painting	Done
17. Paint the trailer and add the client's logo with safety markings	Done
18. Prepare and submit the final inspection report	Done

*Remarks:

- Action No.15: done by NESR team

Reported By:	Hasan Omran	Reviewed By:	Majd Dayoub
Client Feedback:			



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PICTORIAL:

1- Replace the damaged parts of Brake and Suspension Systems





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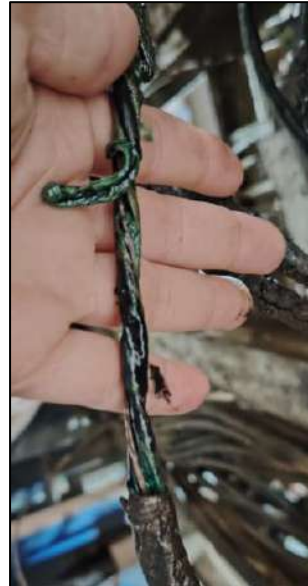
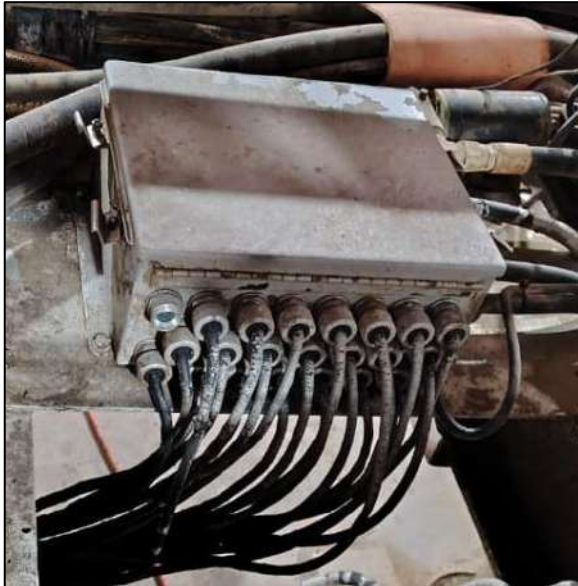
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2- Replace the damaged parts and Wires of Electrical and Control Systems



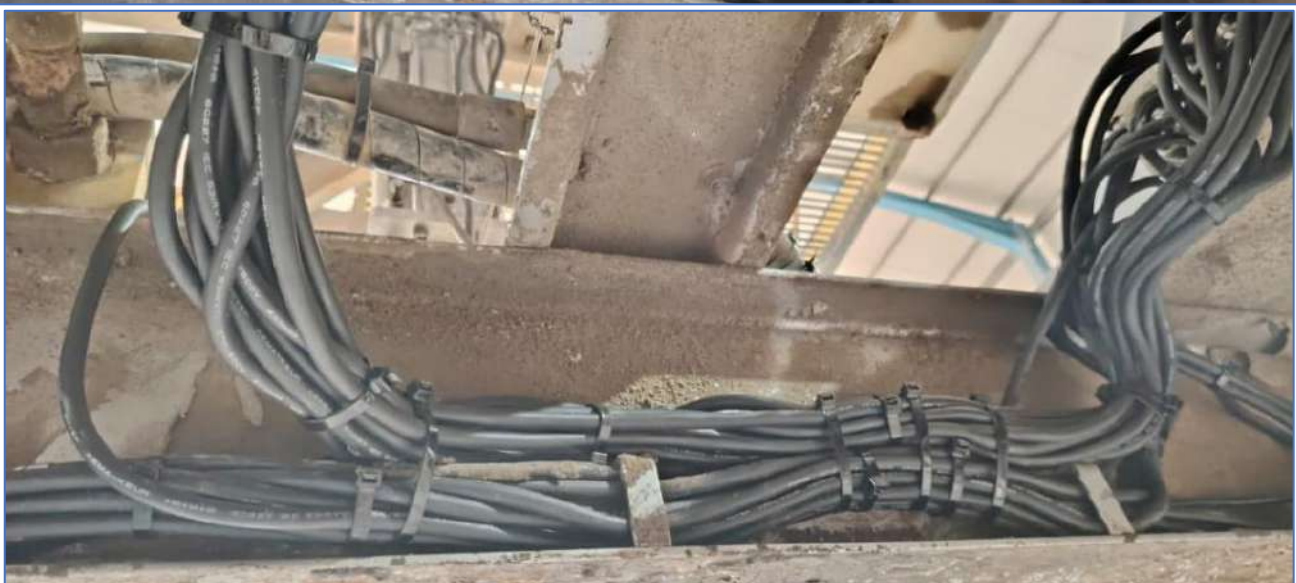
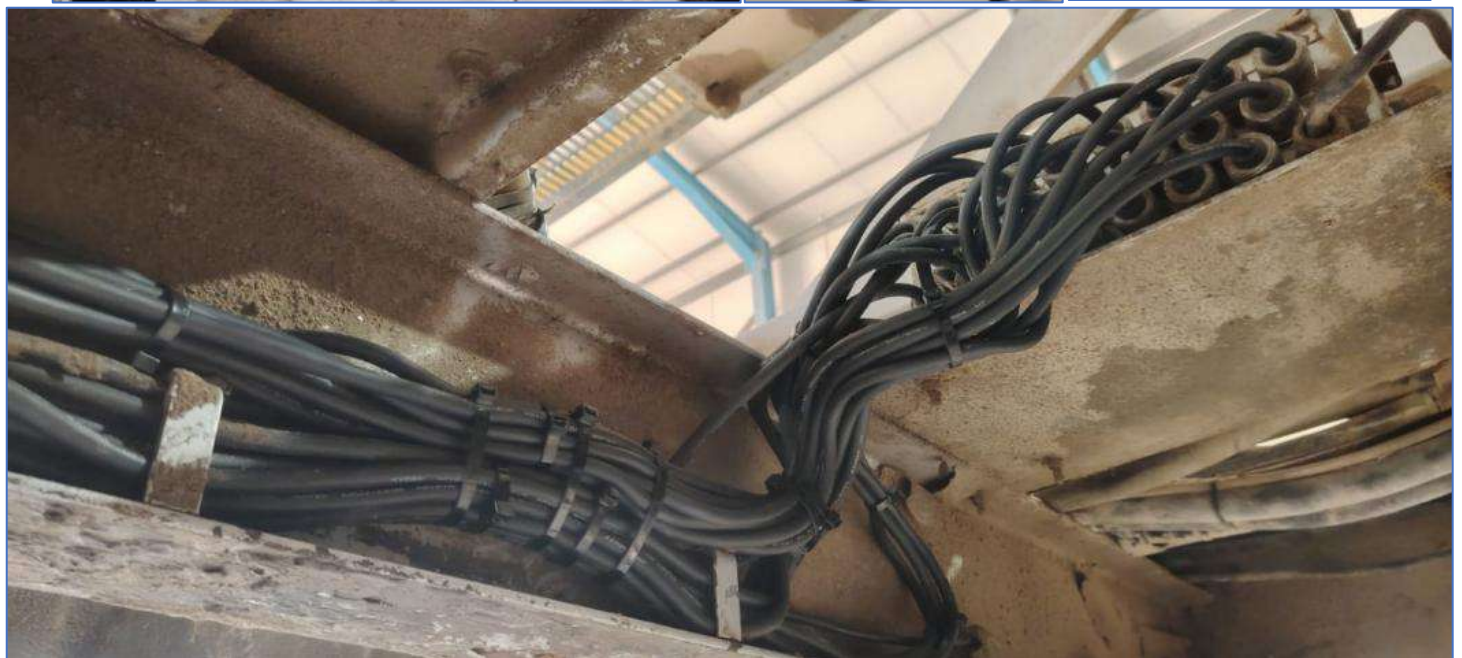


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Section 2 : Head Truck



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The CT6 Unit is Equipped with Western Star head truck, with The Following Specification:

Equipment:	437 Series Coiled Tubing Unit
Owner:	National Energy Services Reunited Corp. (NESR) / Iraq Branch
Unit Number:	CT6
Truck Model	Western Star
Truck Chassis ID	5KJJAEAV27PX69158
Registration Plate Number:	557 Basra
Date of Manufacture:	05/2006
Engine Model:	CAT C15
Transmission Model:	Eaton Fuller
Gross Vehicle Weight:	28123 Kg
Manufacturer:	FREIGHTLINER LLC



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Head Truck Components - Inspection Procedure

- The CT6 Unit is Equipped with Western Star Head Truck, which have 2 rear axles each of them has double wheel/tyre on each side, and one front axle with single Wheel /Tyre each side
- The Head Truck is equipped with CAT C15 Engine which need overhaul as per the client SOW
- The Head Truck is equipped with Eaton Fuller Transmission which need input shaft and seals replace as per the client SOW
- The Head Truck is equipped with Fabco Transfer Case which need replace as per the client SOW
- The Head Truck is equipped with NOV Wet Kit Power Pack unit which have a separate Major survey SOW

Action

Status

1. Properly clean and wash the head Truck, chassis and axles	Done
2. Dismantle, Extract, and offload the engine and the under-hood accessories in preparation for overhaul	Done
3. Disassemble the engine and clean all parts by a specific engine parts' washing machine	Done
4. Thorough inspection for the engine parts	Done
5. Engine overhaul using the received overhaul kit	Done
6. Engine Trial Test	Done
7. Transmission Dismantling, extraction and disassembly of input shaft	Done
8. PTO (Transfer Case) Dismantling and extraction	Done
9. Disassembly of drive shafts and universal joints	Done
10. Disassembly of Power Pack Hydraulic Pumps and Gear box	Done
11. Redress the Power Pack Hydraulic Pumps and Gear box	Done
12. Dismantle the wheels / hubs / flanges/ bearings, and the other axles accessories	Done
13. Dismantle the brake shoes/ brake chambers/ springs/ Drums/and other brake parts / accessories	Done
14. Dismantle the air bags, shock absorbers, and other suspension system parts	Done
15. Dismantle the bad condition tyres / Studs/ Nuts and other accessories	Done
16. Inspect for air leaks and bad condition hoses / fittings of brake and suspension systems	Done
17. Dismantle and segregate the bad condition accessories / parts of brake and suspension systems	Done
18. Prepare and submit the inspection report and inform the client to arrange spare parts accordingly	Done
19. Receive and install the new spare parts	Done
20. Receive and install the re-dressed Power Pack Hydraulic Pumps and Gear box	Done
21. Receive and install the new transmission input shaft	Done
22. Re-install the transmission	Done
23. Redress and re-install the PTO (Transfer Case)	Done
24. Install the new heavy-duty clutch and the new Pilot bearing on the engine	Done
25. Re-install the engine assembly in the truck Chassis	Done
26. Re-install the drive shafts and universal joints	Done
27. Replace the power pack hydraulic hoses	Done
28. Check for any pressure drop or any sound of air, coolant, or any hydraulic leakage	Done
29. Check the engine and drive mechanisms performance	Done



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30. Inspect the electrical system and the pressure gauges and other accessories	Done
31. Perform a final operational and functional test after the completion of power pack and trailer major surveys	Done
32. Connect the truck head with trailer and perform the final functional and operational tests	Done
33. Advanced washing and preparation for painting	Done
34. Paint the head truck and add Client's logo and safety markings – if any-	Done
35. Prepare and submit the final inspection report	Done
*Remarks: Action No.32: done by NESR team	

Reported By:	Hasan Omran	Reviewed By:	Majd Dayoub
Client Feedback:			





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PICTORIAL:

1- Engine overhaul and re-installation



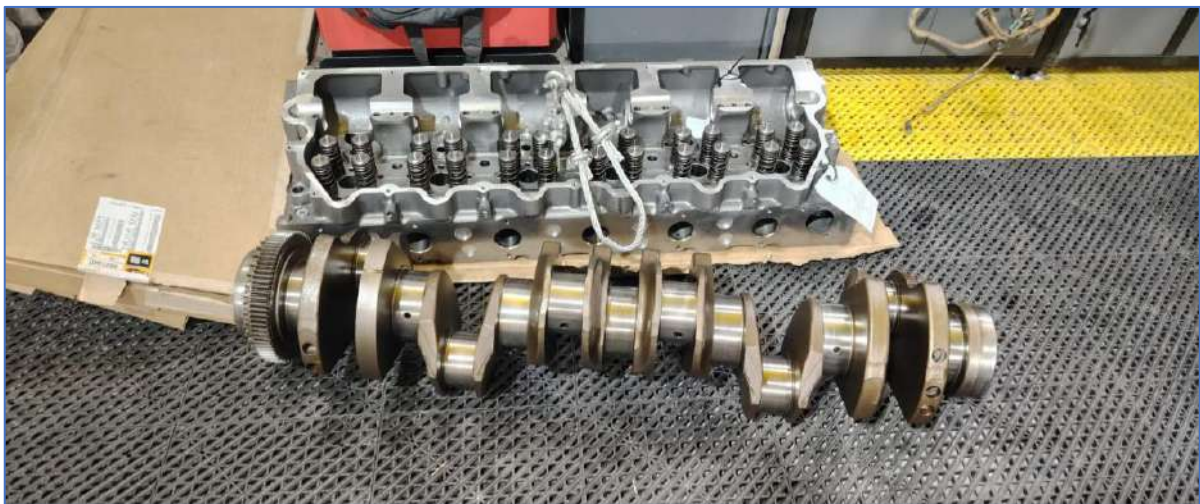


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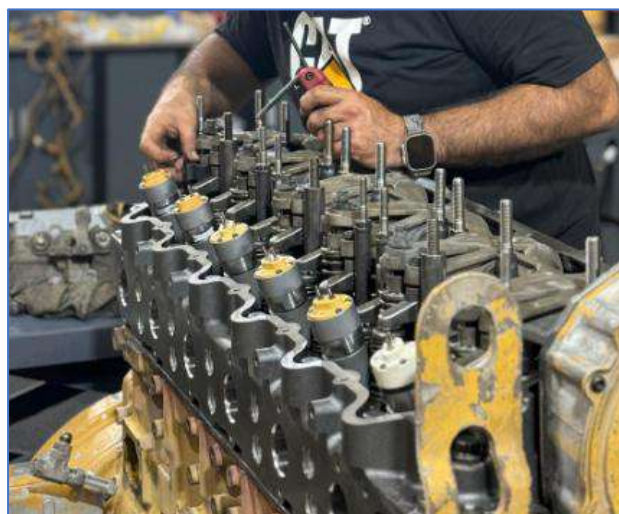
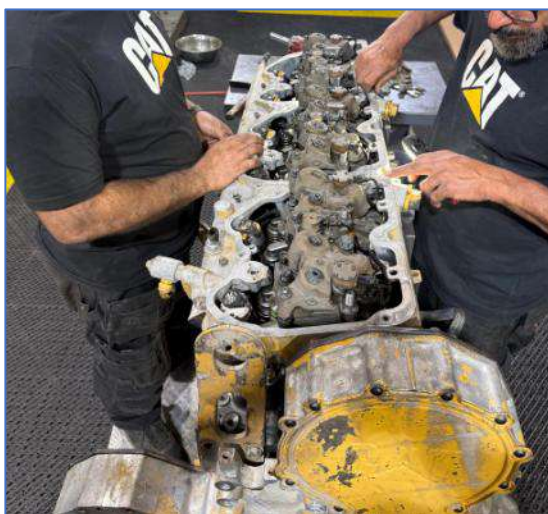
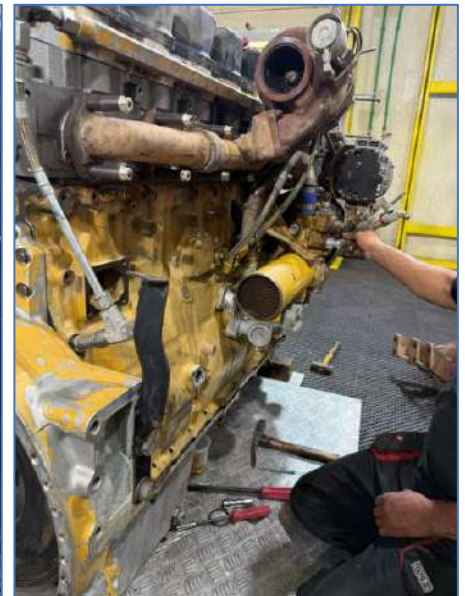


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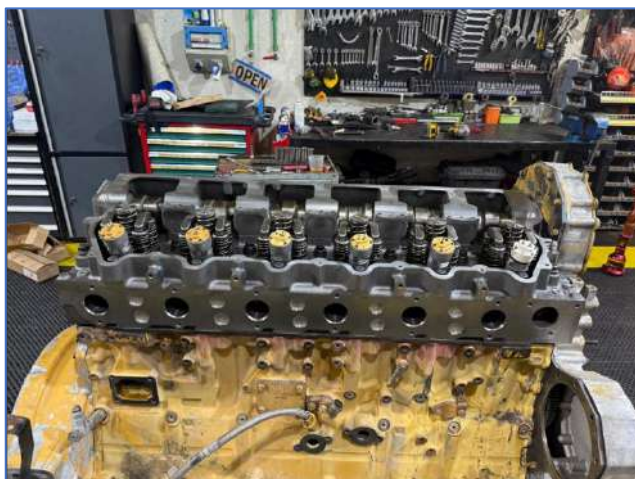
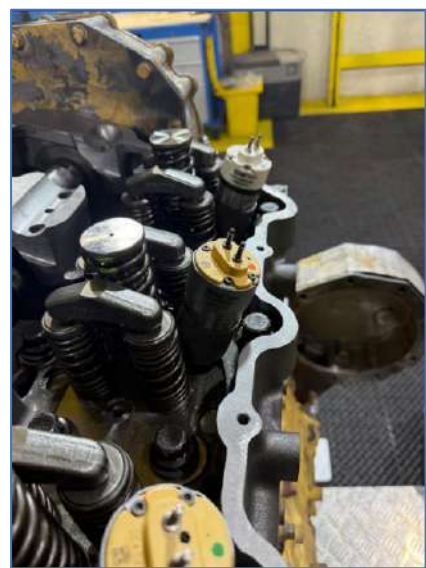


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2- Transmission – Input shaft replacing





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3- Transfer Case (PTO) – Redressing





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4- Driving Shafts and Universal Joints





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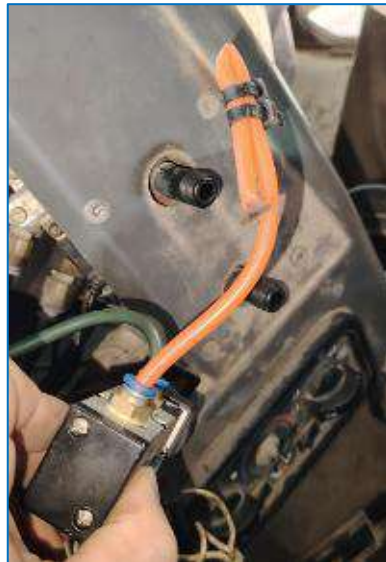
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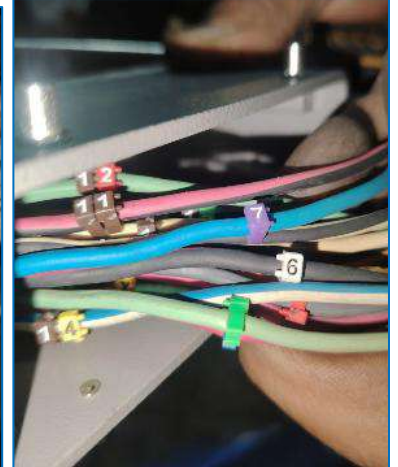
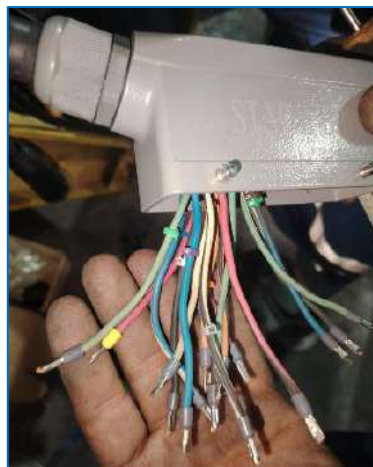
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5- Electrical & Control Systems



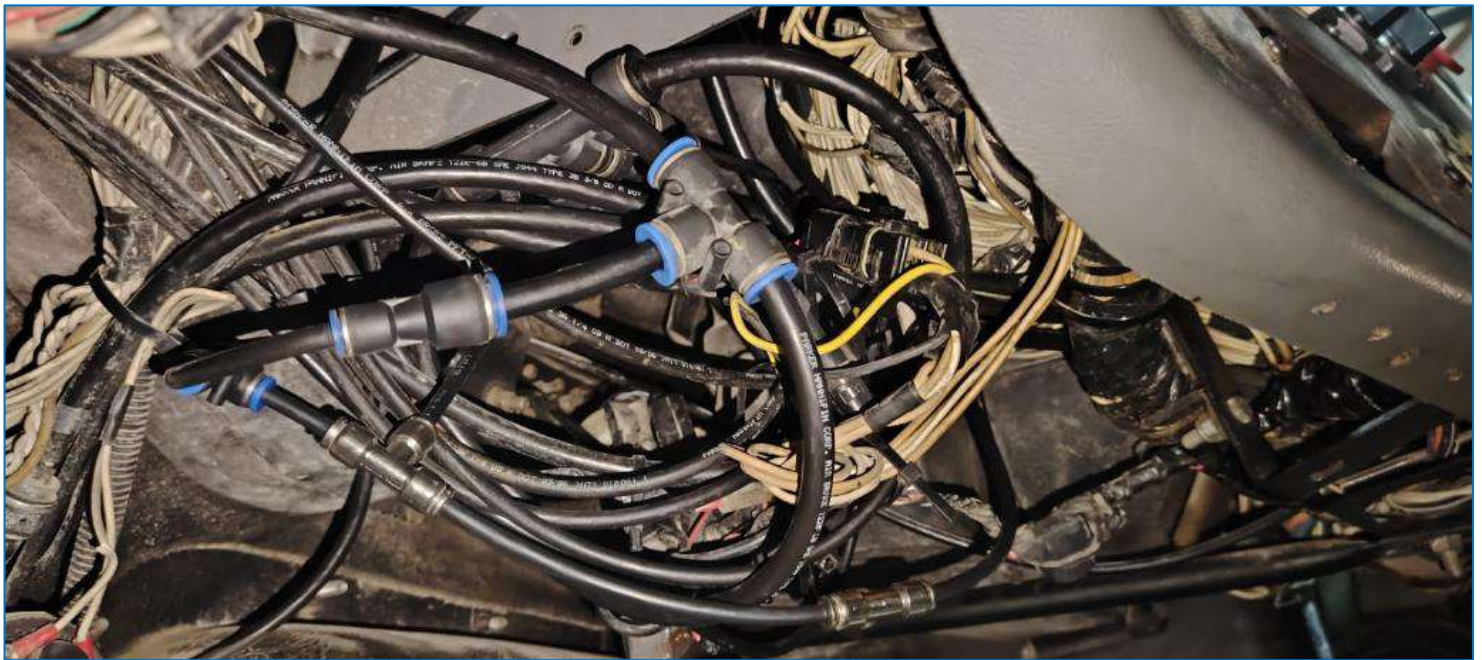


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Unit Number:	CT5	Specification:	OEM & Client Specifications





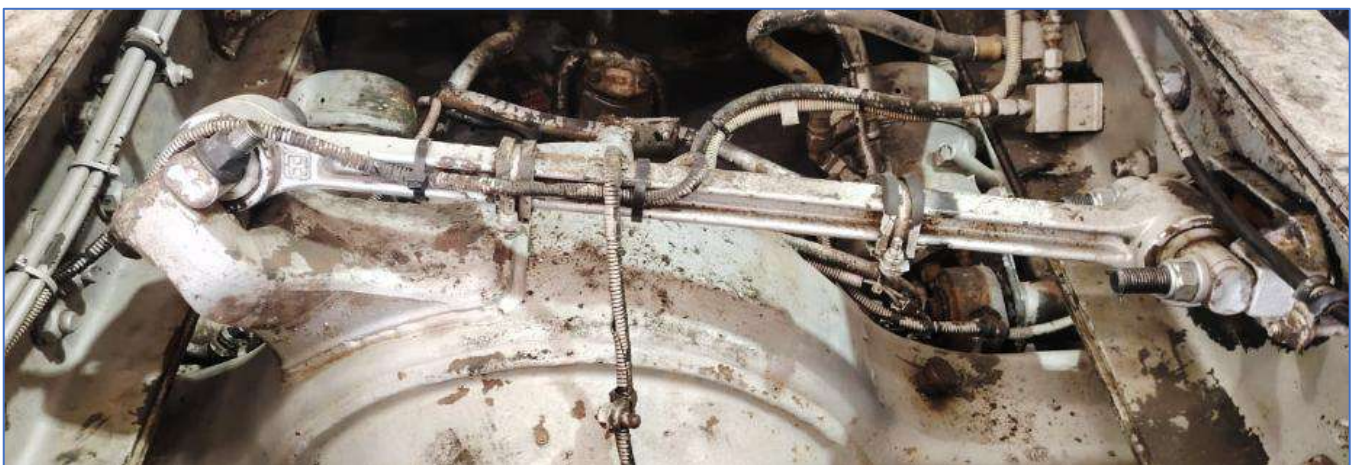
Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

6- Suspension & Steering Systems





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

Section 3 : Power Pack



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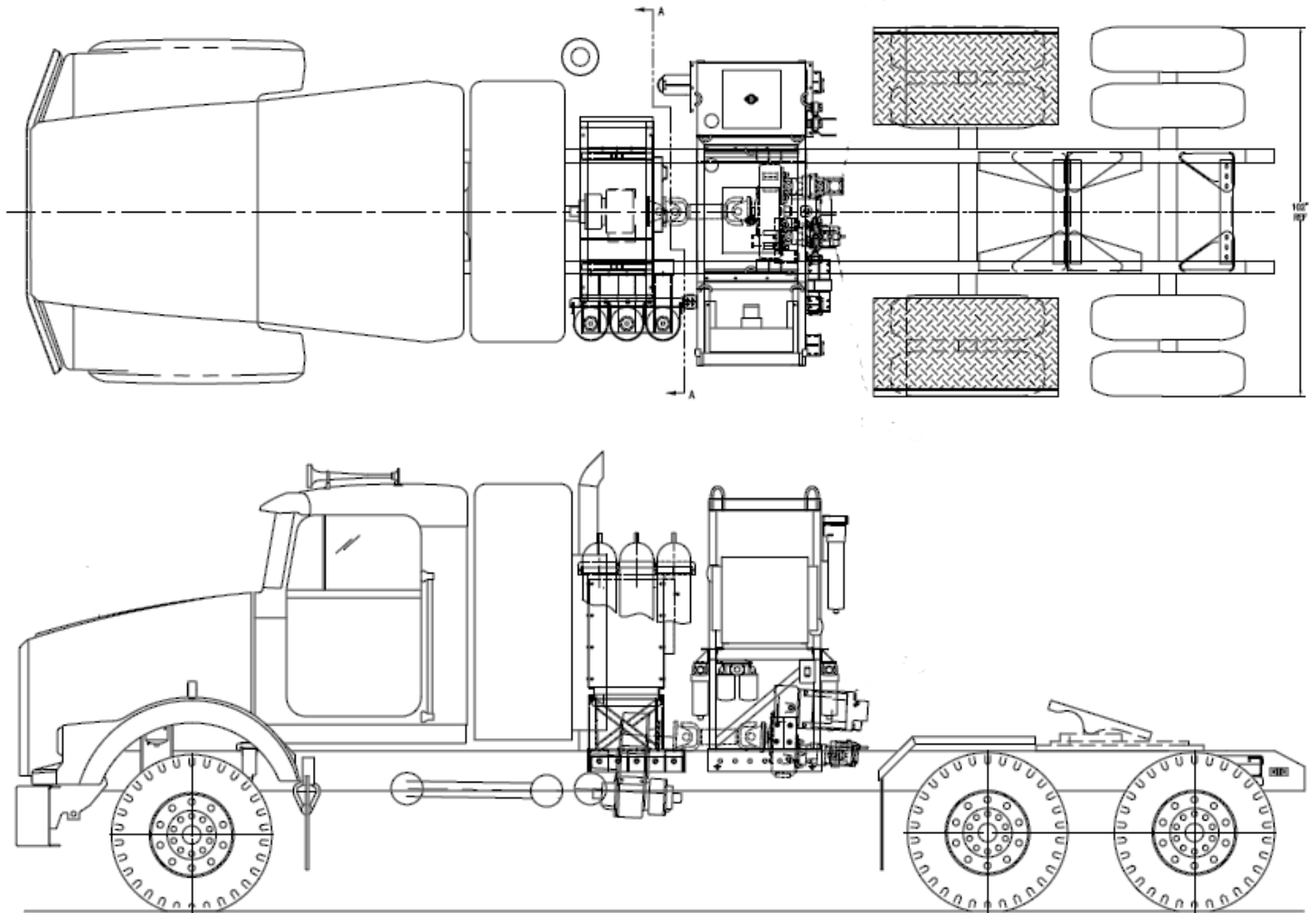
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Emails: yasser.ops@aberdeents-iq.com

inspection@aberdeents-iq.com



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications



The CT6 Unit is Equipped with NOV Hydra Rig WET KIT Power Pack unit, with The Following Specification:

Equipment:	437 Series Coiled Tubing Unit
Owner:	National Energy Services Reunited Corp. (NESR) / Iraq Branch
Unit Number:	CT6
Power Pack Model:	437-D-006
Serial Number:	11742806P-2
Manufacturer:	NOV Hydra Rig

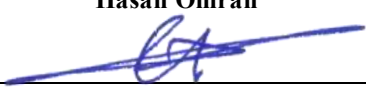


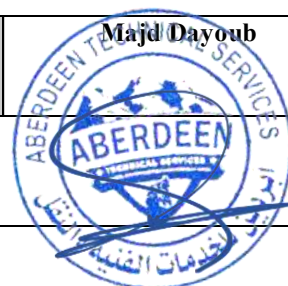
Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

Power Pack - Inspection Procedure

- The CT6 Head Truck Unit is Equipped with NOV Hydra Rig WET KIT Power pack unit, which provide the hydraulic pressure to empower the various CT unit equipment
- A detailed checklist (NOV / Schedule D maintenance/ 5 years) is attached, please check

Action	Status
1. Properly clean and wash the Power Pack unit and accessories	Done
2. Discharge the hydraulic oil tanks at the top of the power pack unit	Done
3. Disconnect the power pack hydraulic hoses in preparation for replacement	Done
4. Dismantle and redress the hydraulic pumps	Done
5. Dismantle and replace all the hydraulic filters	Done
6. Dismantle and redress the hydraulic pumps gear box	Done
7. Re-install the redressed gear box	Done
8. Re-install the redressed hydraulic pumps and replace the BOP pump with the new received one	Done
9. Install the new crimped hoses	Done
10. Replace the bad condition pressure gauges, valves, and fittings	Done
11. Re-fill new hydraulic oil	Done
12. Check for any oil leakage	Done
13. Start the engine and engage the PTO to operate the hydraulic pumps	Done
14. Check the pressure and adjust to the ideal operating pressures	Done
15. Check for any oil leakage at the high pressure	Done
16. Connect the power pack bulkhead to the CT trailer bulkhead connections	Done
17. Perform the operational, and functional tests	Done
18. Prepare and submit the final inspection report	Done
*Remarks: Action No.17: done by NESR team	

Reported By:	Hasan Omran 	Reviewed By:	Majd Dayoub 
Client Feedback:			





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

PICTORIAL:





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications



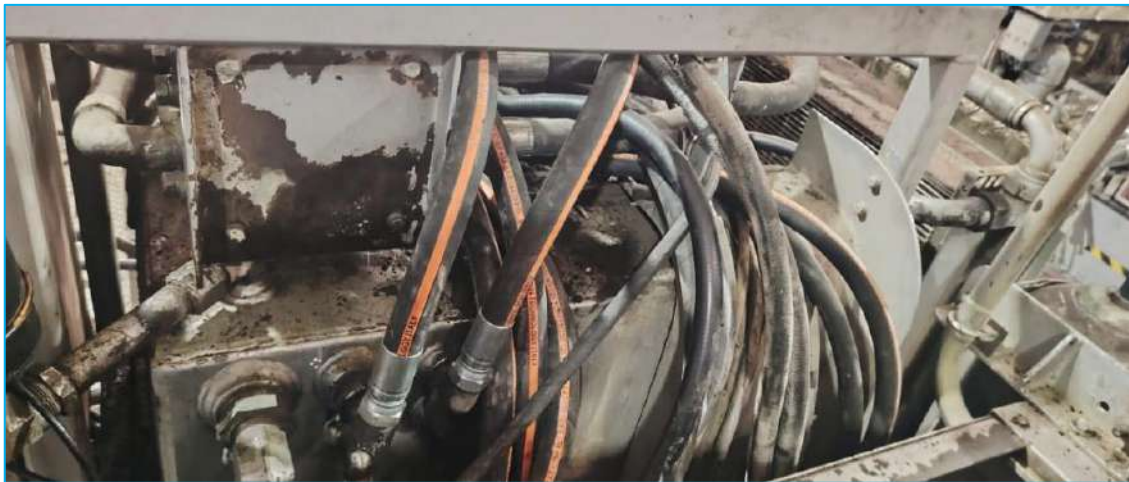


Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

Section 4 : Control Cabin



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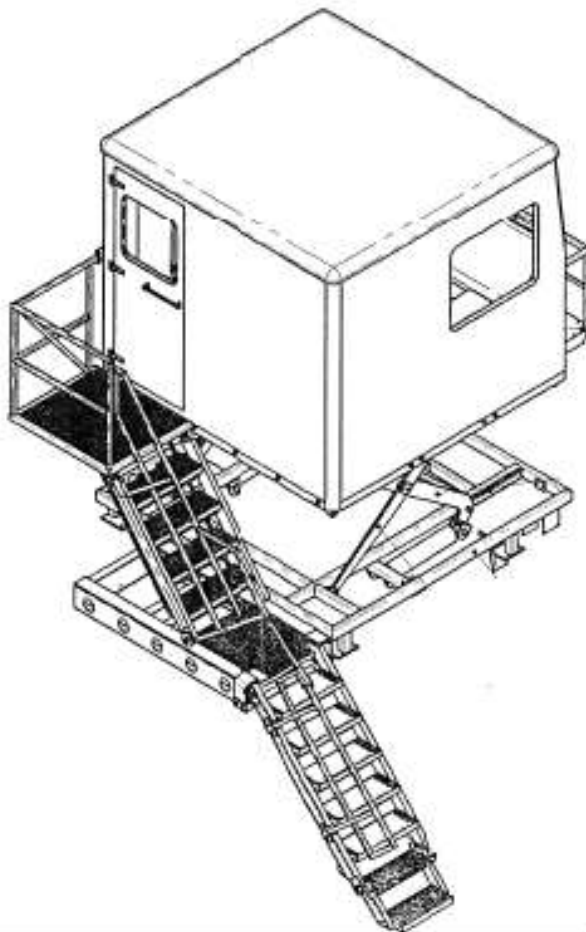
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inspection@aberdeents-iq.com



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications



The CT5 Unit is Equipped with NOV Control Cabin, with The Following Specification:

Equipment:	437 Series Coiled Tubing Unit
Owner:	National Energy Services Reunited Corp. (NESR) / Iraq Branch
Unit Number:	CT5
Control Cabin Model:	437D780
Serial Number:	055104204C
Manufacturer:	NOV NATIONAL OILWELL



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

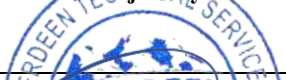
Control Cabin - Inspection Procedure

- The CT5 Unit is Equipped with NOV control cabin
- A detailed checklist (NOV / Schedule D maintenance/ 5 years) is attached, please check

Action	Status
1. Properly clean and wash the control cabin and accessories	Done
2. Inspect electrical system and the lights in the control cabin	Done
3. Inspect all the pressure gauges and replace the bad condition/damaged ones	Done
4. Inspect the cabin doors/windows	Done
5. Inspect the cabin ladders	Done
6. Inspect/redress the cabin lift system	Done
7. Inspect all the hydraulic hoses and replace the bad condition ones	Done
8. Perform the operational, and functional tests	Done
9. Prepare and submit the final inspection report	Done

*Remarks:

- Action No.8: done by NESR team

Reported By:	Hasan Omran 	Reviewed By:	Majd Dayoub 
Client Feedback:			



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Emails: yasser.ops@aberdeents-iq.com

inspection@aberdeents-iq.com



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

PICTORIAL:



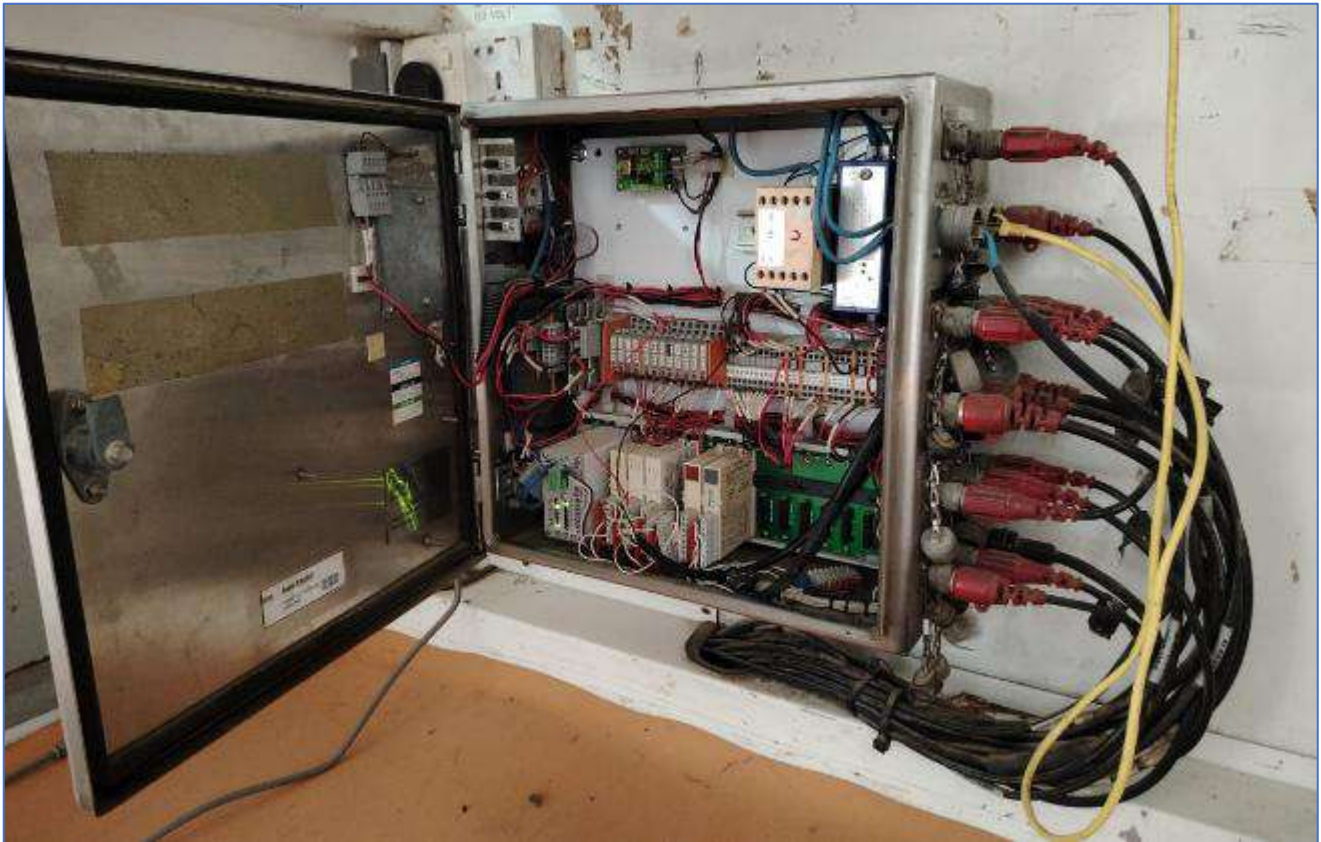


Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications



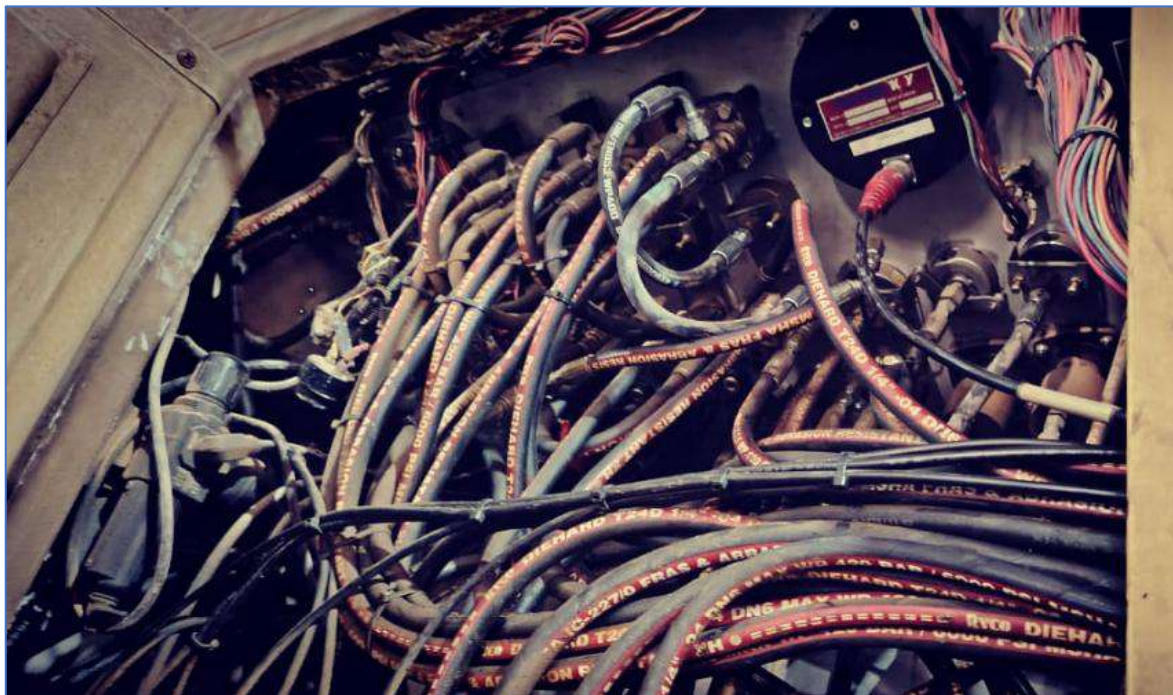
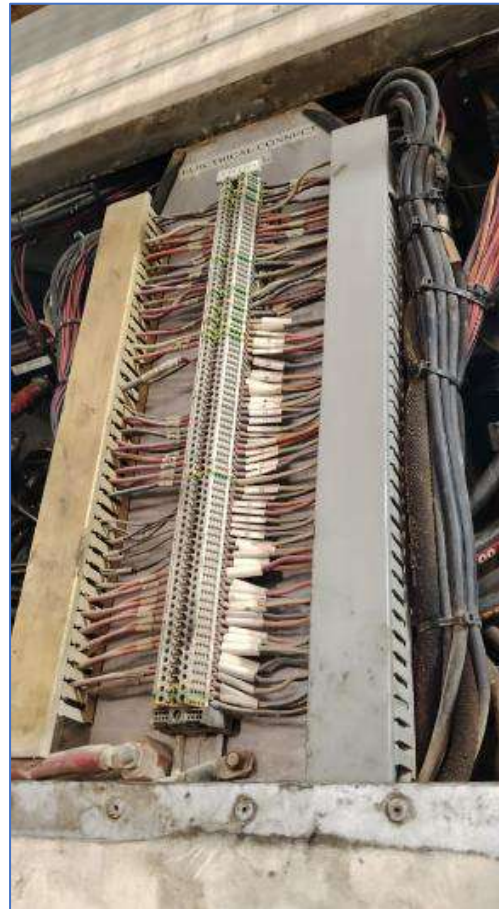


Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications



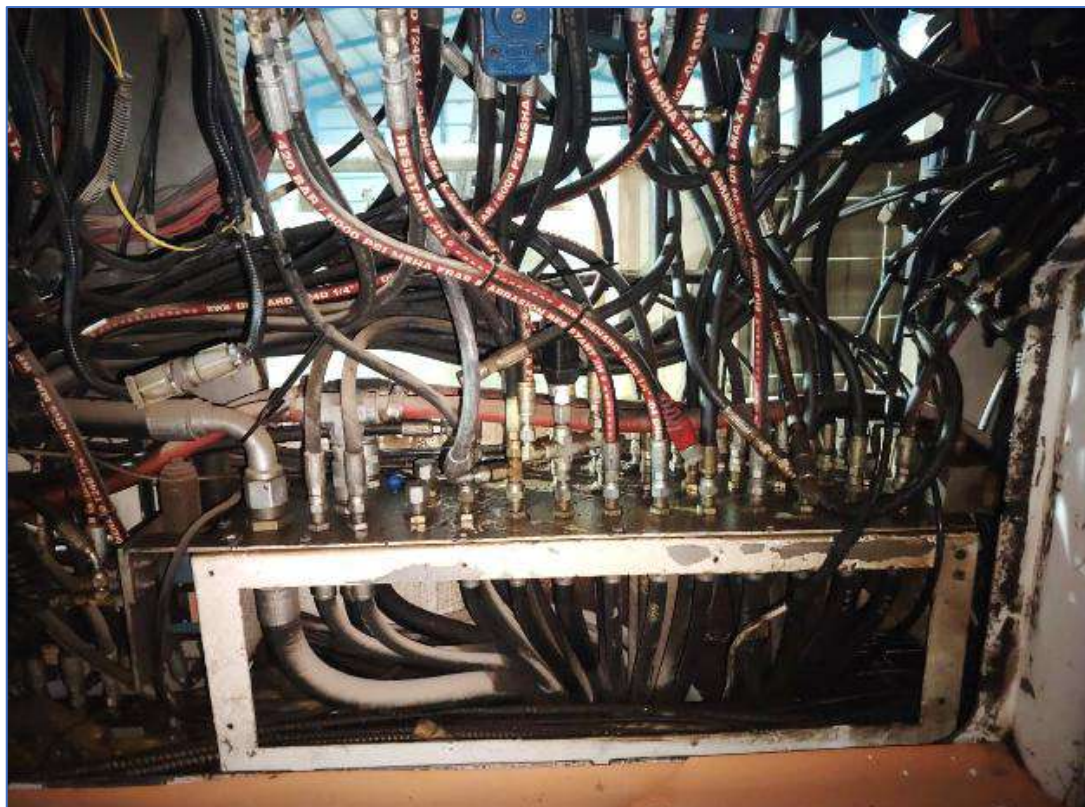


Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

Section 5 : Tubing Reel



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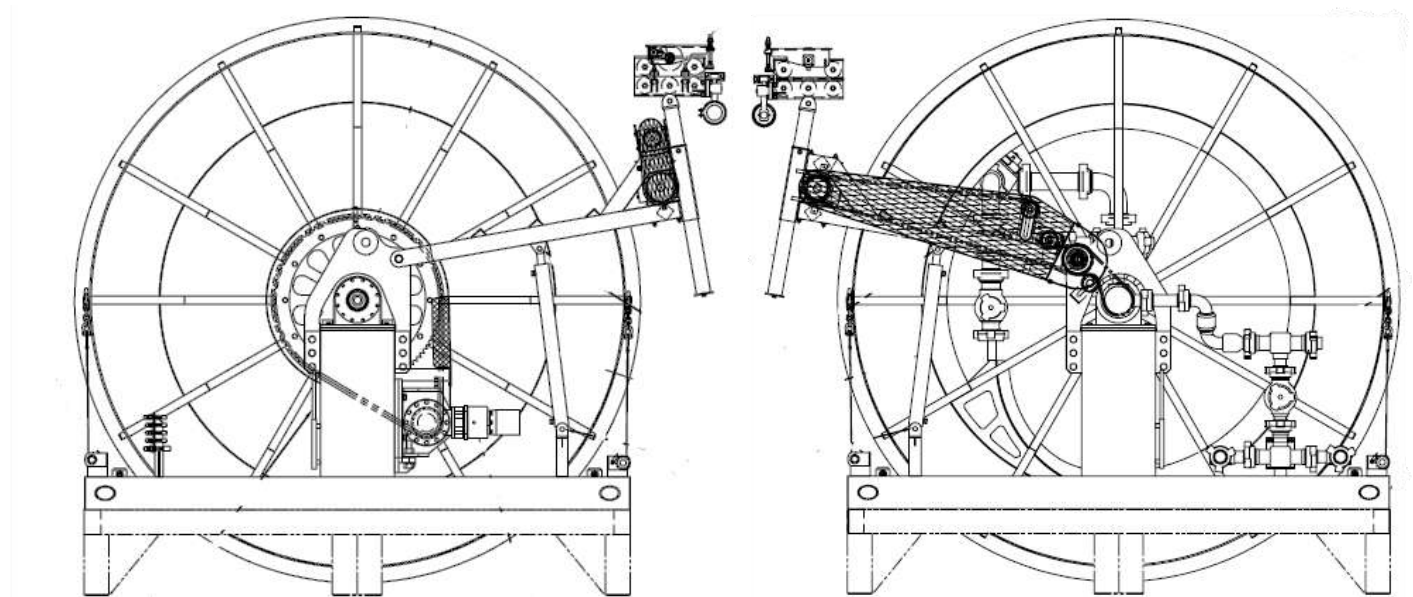
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Emails: yasser.ops@aberdeents-iq.com

inspection@aberdeents-iq.com



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications



The CT5 Unit is Equipped with NOV Hydra Rig Tubing Reel, with The Following Specification:

Equipment:	437 Series Coiled Tubing Unit
Owner:	National Energy Services Reunited Corp. (NESR) / Iraq Branch
Unit Number:	CT5
Tubing Reel Model:	3CB401035
Serial Number:	HRC016602309R-2
Date of MFG:	01/2009
Manufacturer:	NOV Hydra Rig



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

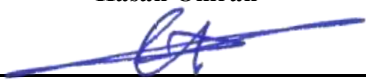
Tubing Reel - Inspection Procedure

- The CT5 Unit is Equipped with NOV Hydra Rig Tubing Reel (437 Series)
- A detailed checklist (NOV / Schedule D maintenance/ 5 years) is attached, please check

Action	Status
1. Properly clean and wash the Tubing Reel and accessories	Done
2. Inspect and redress the hydraulic motor, brake and the gearbox of the tubing reel	Done
3. Inspect all the hydraulic hoses and replace the bad condition ones	Done
4. Inspect/redress the level wind cylinders	Done
5. Inspect the level wind motor	Done
6. Replace the torque limiter clutch	Done
7. Inspect the trolley of the level wind	Done
8. Inspect all the quick connections	Done
9. Inspect the main bearings of the tubing reel	Done
10. Perform the operational, and functional tests	Done
11. Prepare and submit the final inspection report	Done

*Remarks:

- Action No.10: done by NESR team

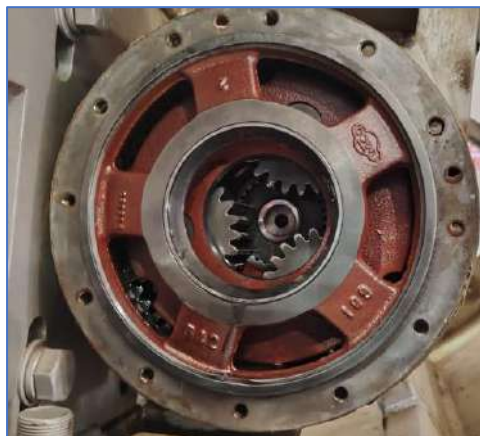
Reported By:	Hasan Omran 	Reviewed By:	Majd Dayoub 
Client Feedback:			





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

PICTORIAL:





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications



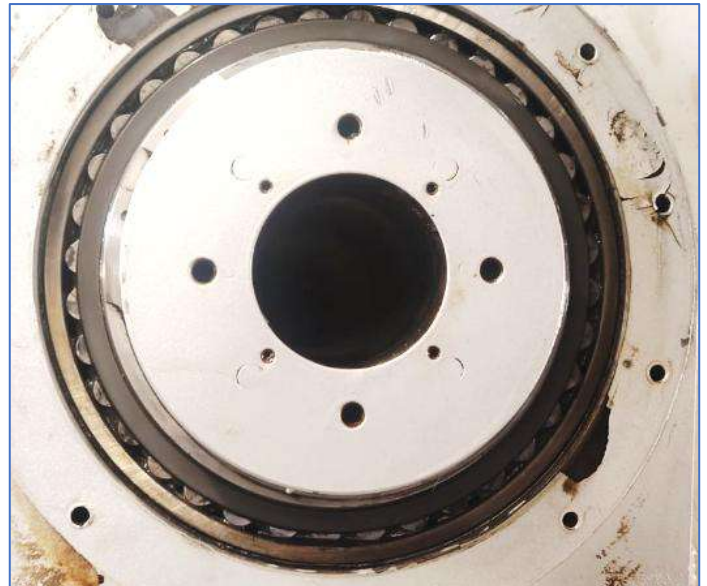


Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

Section 6 : Injector Head



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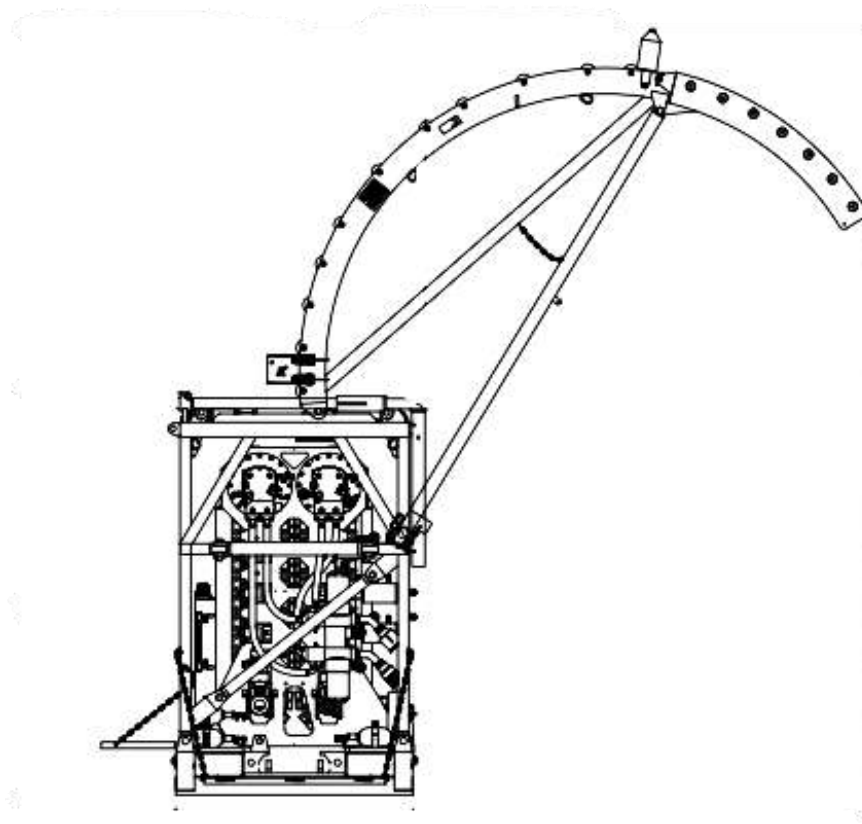
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Emails: yasser.ops@aberdeents-iq.com

inspection@aberdeents-iq.com



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications



The CT5 Unit is Equipped with NOV Hydra Rig Injector Head, with The Following Specification:

Equipment:	437 Series Coiled Tubing Unit
Owner:	National Energy Services Reunited Corp. (NESR) / Iraq Branch
Unit Number:	CT5
Injector Head Model:	HR660
Serial Number:	CC303148
Date of MFG:	07/2013
Manufacturer:	NOV Hydra Rig



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

Tubing Reel - Inspection Procedure

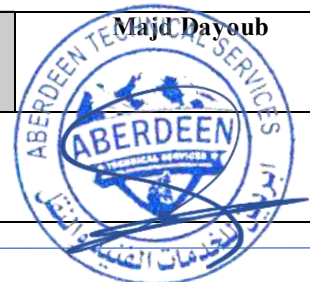
- The CT5 Unit is Equipped with NOV Hydra Rig Injector Head (Model: HR660)
- A detailed checklist (NOV / Schedule D maintenance/ 5 years) is attached, please check

Action	Status
1. Properly clean and wash the Injector Head and accessories	Done
2. Inspect all the fittings and the quick connections and the hydraulic hoses, replace the bad condition ones.	Done
3. Inspect the injector chain drive train and replace the seals	Done
4. Inspect the lower tension sprockets and the bearings	Done
5. Replace the chain tension cylinders	Done
6. Inspect and redress the traction cylinders	Done
7. Inspect the main chain of the injector head (chain linkage, roller bearings and carriers)	Done
8. Perform the elongation test for the injector chains	Done
9. Inspect and redress the injector tilt mechanism	Done
10. Perform the operational, and functional tests	Done
11. Prepare and submit the final inspection report	Done

*Remarks:

- Action No.10: done by NESR team

Reported By:	Hasan Omran 	Reviewed By:	Majd Dayoub 
Client Feedback:			





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

PICTORIAL:





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

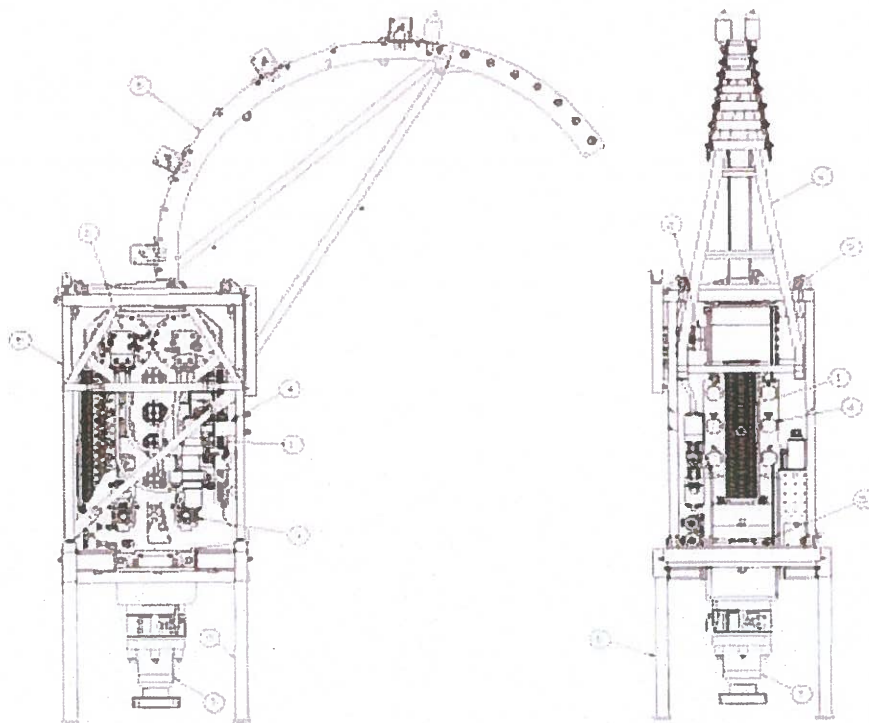




Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications



HYDRA RIG INJECTOR HEAD PREVENTATIVE MAINTENANCE CHECKLIST



SCHEDULE PERIOD D - EVERY 5 YEARS

AFFECTS THE FOLLOWING UNITS:

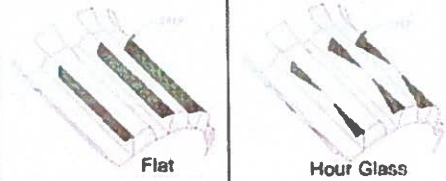
Assy#

7000 2603

Order#

500090250

Equipment Serial#	Specific Equipment Type i.e. HR680 or HR6100	Hubometer Meter reading (Verify meter functions properly)
	HR 660	
Equipment Unit #	Date (dd/mm/yyyy)	Shop, Location and #
	6 / October / 2025	ATS Workshop
Where was PM Performed:		INITIALS = OK F = Fail N/A = not applicable (plus codes below)
Vendor: Aberdeen Technical services		1 = Component(s) not installed on unit being inspected
Shop: ATS Workshop		2 = Task not applicable to the design of unit being inspected
Field:		
Mechanic signature:	Employee ID # (if applicable)	Date:
Mahmond Abd-Alsattar	N/A	Maintenance order #
Ahmad Radhi	N/A	500090250
Ghayeab Kadhem	N/A	
Before beginning this task contact Hydra Rig Aftermarket Service/Technical Support Team to verify if any product bulletins and/or updates should be applied to the injector.		
RECORD AND REPORT ANY ISSUES OR DAMAGE TO SUPERVISOR		INITIALS
SAFETY		CH
Beware of contents under pressure. and check gauges prior to opening circuits.		
When using cranes to remove parts from injector use only certified lifting devices rated for the safe working load		
Check for and label all identified potential Pinch Points.		
FRAME OUTER		CH
Note:	The outer frame is a structural lifting path. No welding or altering of outer frame is allowed without written approval from Hydra Rig.	
	Clean unit and allow to dry. ** Lubricate chains immediately after cleaning!!!! **	OK
	Visually check structure for damage and welds for cracks.	OK
	Verify lifting points are free of damage with no cracks.	OK
	Verify leveling legs are in good condition and secure.	OK
	Verify forklift pockets are clean (no debris) and in good condition.	OK
	Check all gauges for indications of trapped hydraulic pressure, before further inspection steps.	OK
FRAME INNER		
Note:	The inner frame is a structural member. No welding or altering of inner frame is allowed without written approval.	
	Visually inspect injector for obvious initial damage.	OK
	Check all injector guards and pins fitted/ in good condition.	OK
	Check injector pivot points for elongation and pin wear **Consult HR Tech Support for procedure(s)**	OK
HYDRAULICS		
	Function Test Counterbalance valves replace if needed **Consult HR Tech Support for procedure(s)**	OK
	Remove Hydraulic drive motors, and Hydraulic timing motors (if equipped)	OK
	Drive motors, and Hydraulic timing motors (if equipped) should inspected, rebuilt and bench tested **Consult HR Tech Support for procedure(s)**	N/A
	Check hydraulic hoses, fittings, cylinders, and valves for damage/leaks.	OK
	Check accumulator pre-charge pressures check appropriate manual for pressures.	OK
	Check condition of all gauges & replace as required.	OK
	Change high pressure filters.	OK

INJECTOR DRIVETRAIN				CH
Measure axial play on drive sprocket bearings. **Fail @ more than 0.075" movement**				OK
Pressure test upper drive system to 9PSI **Consult HR Tech Support for procedure(s) if needed**				OK
** Upper drive system should have bearings and oils seals replaced at a minimum of every 2M running meters or 7M running feet or two service years **				OK
Measure axial play on idler sprocket bearings. **Fail @ more than 0.190" movement**				OK
Drive chains should be removed and fully inspected **Consult HR Tech Support for procedure(s)**				OK
Check drive sprockets for wear/damage *Photos of teeth & seal surfaces to be shared with Hydra Rig*				OK
Check Idler sprockets for wear/damage *Photos of teeth & bearing dust seals to be shared with Hydra Rig*				OK
Remove planetary Gearboxes, check and inspect external drive system as per Hydra Rig injector manual.				OK
PLANETARY DRIVE INSPECTION for models listed below				CH
Gearbox Model: Rexroth / GFT 26 T2 9250 660		6100	6140	
Gearbox Serial Number:		Front: 1377417	Back: 1377429	
Injector Sales Order, Part #:				
Injector Total Footage:				
Injector Hubometer Reading:				
Gearbox Oil Condition: Check/Tick all that apply: - Gear oil Replaced with new 1 Gallon each gearbox		Metal Flake Size: New	Record larges in mm	
		Contaminated Oil: oil	Yes/No	
		Moisture Present: used	Yes/No	
		Burnt Oil Smell:	Yes/No	
		Normal Oil Smell:	Yes/No	
Note:	Spline Condition	Wear pattern	Step Depth	
	Motor Input	Flat/Hourglass	Satisfactory	
	Brake Input	Flat/Hourglass	Satisfactory	
	Brake Output	Flat/Hourglass	Satisfactory	
	Driveshaft Input	Flat/Hourglass	Satisfactory	
	Driveshaft Output	Flat/Hourglass	Satisfactory	
Step Depth over 0.015 is worn out. If so report to local Operations / Maintenance Supervisors and Manager and plan repair.				
Gear Condition Check/Tick all that apply:		First Stage	Second Stage	
Chipped Teeth		Yes/No	Yes/No	
Spalling		Yes/No	Yes/No	
Rough finish		Yes/No	Yes/No	
Machined Finish		Yes/No	Yes/No	
Mirror Finish		Yes/No	Yes/No	
* Planetary inspection results should be shared with Hydra Rig for review, prior to re-install*				
Reassemble gearboxes and mount to injector.				OK
Replace gearbox oil, check manual for the correct oil and fill system to correct level.				OK
Check gearbox oil is at the correct level, check manual for the correct oil and top up if required.				OK
CHAIN LUBRICATION				CH
Remove all injector chain lube nozzles and clean out.				OK
Inspect and service chain lube filter assembly.				OK
Check oil level in chain oil reservoir and fill if needed.				OK
Ensure spray nozzle pattern is fanned out horizontally across width of drive chain.				OK

LIFTING SYSTEMS		CH
Visually inspect lift eyes and welds for cracks and damage.		OK
Verify that correct pins that attach tubing guide are being used.		OK
Verify all lifting slings are in good condition and has up to date certification tags on them.		OK
Verify all shackles, nuts and cotter pins are in good condition and secure.		OK
Verify lifting slings, associated lifting components and certification meet minimum standards, local and customer regulations.		OK
Have an approved vendor perform NDE inspection on all lifting points and welds on lifting frame. If repairs are required have NDE performed again after repairs are made. ** Consult NOV for further details on this process **		OK
Have an approved vendor inspect lifting slings accordingly and provide certification tags. Record: (all should be noted on certification tag)		OK
Invoice/Cert Number:		
Test Date:		
Sling Capacity:		
Unit Number:		
Touch up paint as necessary to specifications.		
TENSION & TRACTION SYSTEM		CH
Visually traction cylinders for damage/bent rods. **Consult HR Tech Support for procedure(s)**		OK
Check for excessive wear on outside traction bearings. **Consult HR Tech Support for procedure(s)**		OK
** Tension or Traction Cylinders have more than 2 years of service or 4M running feet should be re-sealed or replaced if they're not in rebuildable condition **		OK
Inspect traction or skate bar for excessive wear ** Refer to NOV supplied procedure **		OK
Check for min tension cylinder gap to inner body ** Consult manual for procedure(s) and tolerance **		OK
Pressure up traction cylinders to 2,000 PSI, isolate with ball valve, leak test for 10 mins		OK
Pressure up tension cylinders to 2,000 PSI, isolate with ball valve, leak test for 10 mins		OK
Visually inspect lower tension sprocket, brass wear guides & bearings for damage/ abnormal wear.		OK
Lubricate Idler Sprocket Bearings ** Make certain not to over-grease them and extrude the dust seals **		OK
TUBING GUIDE SYSTEM		CH
Inspect/Service Tubing Guide Rollers and Bearings **Consult HR Tech Support for procedure(s)**		OK
Inspect/Service Tubing Guide Mount and Mounting Pins **Consult HR Tech Support for procedure(s)**		OK
Inspect Tubing Guide Body for damage (Cracks, Bends, Breaks, Rust, Missing Pieces)		OK

	FUNCTIONAL TEST	CH
	Use all necessary safety precautions to prevent injury while function testing of injector.	ok
	Function test injector brakes to max drive pressure of the injector. **Consult HR Tech Support for	ok
	Refer to test documents in injector manual, and replicate factory recorded function testing.	ok
	Select and install appropriate pull test bar according to gripper block size.	ok
	Carry out pull test and record results	ok
	** Keep in mind test results shouldn't necessarily match up EXACTLY to results on test documents from manual due to variances in power packs, wear and other factors **	ok
	** Consult Hydra Rig Aftermarket Service or Technical Support Team(s) if there are testing issues	

LIST ALL DEFECTS FOUND DURING THE PM INSPECTION, INCLUDE AN APPROPRIATE EXPLANATION.

Note: An comment line will be required for each defect/repair.

1. - Injector Motors, Brakes, and gearboxes have been disassembled and inspected and all the results found satisfactory.
- The motors, Brakes, and gearboxes with shafts have been re-assembled to the injector head and filled with Gear oil.
2. The Brake valve manifold has been replaced with brand new
3. - All Tension cylinders have been replaced with brand new
- All Traction cylinders have been redressed with new seal kits
- All the bad condition hoses / gauges have been replaced with new
4. Chain and Gripper blocks have been inspected and found satisfactory
5. Brass Bushing stop for tension cylinders has been replaced with Brand new
- 6.
- 7.
- 8.
- 9.
- 10.
- 11.

CT POWER PACK HHP PERFORMANCE TEST



LOCATION: Aberdeen Workshop GLOBAL ASSET ID: CTU-5 PP WO: 500090254
 MODEL/TYP: Sonik, W/S Head Truck RUNNING FEET: - INSPECTION DATE: 18-12-2025

REEL CIRCUIT FLOW TEST

TEST	RECORD	EXPECTED RESULT	PASS	FAIL
Reel Circuit Flow Test: - Connect flow meter directly to the Reel Power hoses from Cabin. - Make sure the hoses connected to flow meter are in the right direction, with Reel valve position PAY IN inside the cabin. - Make sure Reel Secured with chain. - Start Power pack, engage Priority and Reel Circuit - Make sure Engine RPM not less than 1900. - Make sure Flow meter loading valve is fully opened. - Start screw in Reel Motor pressure valve till the end. - Slowly start applying pressure by dialing flow meter loading valve, apply pressure start from 500 PSI till 2500PSI, step 500 PS. - Fully open flow meter loading valve.	Reel Gauge: <u>500</u>	Pressure 500 Psi	✓	
	Flow Meter Gauges: <u>500</u>	Flow: <u>50 GPM</u>		
	Reel Gauge: <u>1000</u>	Pressure 1000 Psi	✓	
	Flow Meter Gauges: <u>1000</u>	Flow: <u>48 GPM</u>	✓	
	Reel Gauge: <u>1500</u>	Pressure 1500 Psi	✓	
	Flow Meter Gauges: <u>1500</u>	Flow: <u>47 GPM</u>	✓	
	Reel Gauge: <u>2000</u>	Pressure 2000 Psi	✓	
	Flow Meter Gauges: <u>2000</u>	Flow: <u>47 GPM</u>	✓	
	Reel Gauge: <u>2500</u>	Pressure 2500 Psi	✓	
	Flow Meter Gauges: <u>2500</u>	Flow: <u>46 GPM</u>	✓	

EVELWIND CIRCUIT FLOW TEST

TEST	RECORD	EXPECTED RESULT	PASS	FAIL
Level wind Circuit Flow Test: - Connect flow meter directly to the level wind hoses from Cabin. - Make sure the hoses connected to flow meter are in the right direction. - Start Power pack, engage Priority and Reel Circuit - Make sure Engine RPM not less than 1900. - Make sure Flow meter loading valve is fully opened. - Shift Levelwind Lever and start screwing loading valve in flow meter. - Slowly start applying pressure by dialing flow meter loading valve, apply pressure start from 500 PSI till 3000PSI, step 500 PSI.	Levelwind Gauge: <u>3000</u>	Pressure <u>3000</u> PSI	✓	
	Flow Meter Gauge: <u>3000</u>	Flow: <u>46 GPM</u>		

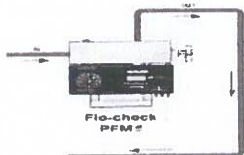
Priority AUXILIARY CIRCUIT FLOW TEST

TEST	RECORD	EXPECTED RESULT	PASS	FAIL
Auxiliary Circuit Flow Test: - Connect flow meter directly to the Aux hoses from Power Pack. - Make sure the hoses connected to flow meter are in the right direction. - Start Power pack, engage Aux Circuit. - Make sure Engine RPM not less than 1900. - Make sure Flow meter loading valve is fully opened. - Start screw in AUX pressure valve till the end. - Slowly start applying pressure by dialing flow meter loading valve, apply pressure start from 500 PSI till 3000PSI, step 500 PSI. - Fully open flow meter loading valve	AUX Gauge: <u>3000</u>	Pressure: <u>3000</u> PSI	✓	
	Flow Meter Gauge: <u>3000</u>	Flow: <u>18 GPM</u>		

~~PRIORITY~~ / BOP CIRCUIT FLOW TEST

TEST	RECORD	EXPECTED RESULT	PASS	FAIL
Priority /BOP Circuit Flow Test: - Connect flow meter directly to unloader valve output. - Make sure the hoses connected to flow meter are in the right direction. - Start Power pack, engage Priority / BOP Circuit - Make sure Engine RPM not less than 1900. - Make sure Flow meter loading valve is fully opened. - Slowly start applying pressure by dialing flow meter loading valve, apply pressure start from 500 PSI till 3000PSI, step 500	Priority Gauge	Priority Pressure: PSI		
	Flow Meter Gauge	Priority Flow:		
	BOP Gauge: <u>3000</u>	BOP Pressure: <u>3000</u> PSI	✓	
	Flow Meter Gauge: <u>3000</u>	BOP Flow: <u>26 GPM</u>		

INJECTOR CIRCUIT FLOW TEST				
TEST	RECORD	EXPECTED RESULT	PASS	FAIL
Injector Circuit Flow Test: - Connect flow meter directly to the injector power hoses. - Make sure the hoses connected to flow meter are in the right direction. (IN HOLE hose connected to the flow meter IN port) - Make sure flow meter loading valve are fully opened. - Start Power pack, engage Priority Circuit. - Makes sure reel are secured with chain. - Engine RPM not less than 1900 - Release Reel brake, shift Mayson Tyson to IN HOLE position - Start closing Injector Motor Pressure valve in cabin till it is fully dialed in. - Using Flow meter loading valve, start applying pressure, starting from 500 PSI, with step of 500 PSI till 4500 PSI. - Record Flow against each pressure reading. - After test, release flow meter loading valve, release injector motor pressure valve, Injector directional control valve to Neutral and apply reel brake.	Cabin gauge: 500	Pressure 500 PSI	✓	
	Flow meter gauge: 500	Flow: 110 GPM		
	Cabin gauge: 1000	Pressure 1000 PSI		
	Flow meter gauge: 1000	Flow: 104 GPM		
	Cabin gauge: 1500	Pressure 1500 PSI		
	Flow meter gauge: 1500	Flow: 100 GPM		
	Cabin gauge: 2000	Pressure 2000 PSI		
	Flow meter gauge: 2000	Flow: 98 GPM		
	Cabin gauge: 2500	Pressure 2500 PSI		
	Flow meter gauge: 2500	Flow: 97 GPM		
	Cabin gauge: 3000	Pressure 3000 PSI		
	Flow meter gauge: 3000	Flow: 95 GPM		
Cabin gauge: 3500	Pressure 3500 PSI			
Flow meter gauge: 3500	Flow: 92 GPM			
Cabin gauge: 4000	Pressure 4000 PSI			
Flow meter gauge: 4000	Flow: 90 GPM			
Cabin gauge: 4500	Pressure 4500 PSI			
Flow meter gauge: 4500	Flow: 90 GPM			



HHP TEST				
TEST	RECORD	EXPECTED RESULT	PASS	FAIL
HHP TEST - Before starting the HHP, make sure the reel is secured. - With flow meter connected to the power hoses, upload priority circuit. - Make Sure Engine RPM is at Max (2100 RPM). - Start applying Pressure for Injector slowly, monitor Engine RPM. - Start applying restriction for the flow in the flow meter by closing the control valve. - Record Injector pressure and flow when Engine RPM start to drop (around 100-150 RPM) or if you reach 4800 psi injector pressure.	Flow low 90 Injector pressure 4500 236 HHP	Use Formula to calculate HHP= $(P \times Q) \div 1714$ HHP should be no less 80% of the typical HHP Typical HHP calculated for the max injector circuit pressure and flow (for 120 GPM HHP=330, for 90 GPM circuits HHP=250)	✓	
HHP=				

BOP C-O-C TEST * Make sure there is no Pipe inside the BOP				
TEST	RECORD	EXPECTED RESULT	PASS	FAIL
- Start power pack, make sure Engine RPM is above 1800 RPM. - Make sure BOP circuit engaged. - Check BOP circuit pressure, once Reach to Max (3000 PSI), shut done the power pack. - Start operation BOP Rams – Close (BILND/PIPE/SLIP/SHEAR) - Open all Rams Again. - Close all Rams. - Check remaining pressure in BOP circuit gauge.	BOP Circuit 3000 PSI Remining pressure after COC test 629 PSI	*Remaining pressure must be 200 PSI above accumulator charge pressure	✓	

COMMENTS: Describe any additional checks performed or deficiencies found

Pressure tested the Injector power hoses up to 5000 psi

THIS EQUIPMENT IS:		IF NOT READY FURTHER ACTION IS FROM	
☒ GREEN TAGGED AND READY TO PERFORM NEXT JOB	☐ RED TAGGED AND NOT READY TO PERFORM NEXT JOB	Maintenance	Operation
Inspector - Name and Signature: <u>Mohamed Ibrahim</u> Date: <u>18 Dec 2025</u>	Supervisor - Name and Signature: <u>Waleed Omer</u> Date: <u>18 Dec 2025</u>	SI / MSV - Name and Signature: <u>Mohammed Reheem</u> Date: <u>18 Dec 2025</u>	

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18-12-2025

18-Dec-2025

18 Dec 2025

CT INJECTOR PERFORMANCE TEST

70002603



LOCATION: Aberdeen Workshop

GLOBAL ASSET ID: CTU-5 IH

WO: 500090250

MODEL/TYPE: HR 660

RUNNING FEET: —

INSPECTION DATE: 16-12-2024

TRACTION SYSTEM TEST

TEST	RECORD	EXPECTED RESULT	PASS	FAIL
Perform the following with pipe in injector with min tension pressure.				
Apply 500 psi to upper skate rams, confirm pressure on all gauges, hold for 1 minute and bleed off.	CTU gauge: <u>500</u> Injector gauge: <u>500</u>	Pressure difference between gauges is $\pm 5\%$	✓	
Apply 500 psi to middle skate rams, confirm pressure on all gauges, hold for 1 minute and bleed off.	CTU gauge: <u>500</u> Injector gauge: <u>500</u>	Pressure difference between gauges is $\pm 5\%$	✓	
Apply 500 psi to lower skate rams, confirm pressure on all gauges, hold for 1 minute and bleed off.	CTU gauge: <u>500</u> Injector gauge: <u>500</u>	Pressure difference between gauges is $\pm 5\%$	✓	
Apply maximum traction pressure to upper skate rams and confirm pressure on all.	CTU gauge: <u>2700</u> Injector gauge: <u>2700</u>	Pressure difference between gauges is $\pm 5\%$	✓	
Apply maximum traction pressure to middle skate rams and confirm pressure on all.	CTU gauge: <u>2700</u> Injector gauge: <u>2700</u>	Pressure difference between gauges is $\pm 5\%$	✓	
Apply maximum traction pressure to lower skate rams and confirm pressure on all.	CTU gauge: <u>2700</u> Injector gauge: <u>2700</u>	Pressure difference between gauges is $\pm 5\%$	✓	

TENSION SYSTEM TEST

TEST	RECORD	EXPECTED RESULT	PASS	FAIL
Apply minimum pressure to the outside chain tensioner system and confirm the pressure on all gauges, hold for 1 minute, and bleed off.	CTU gauge: <u>100</u> Injector gauge: <u>100</u>	Pressure difference between gauges are $\pm 5\%$, At least 1/8 clearance between tension cylinder flat to the shoulder on the injector head.	✓	
Apply maximum pressure to the outside chain tensioner system and confirm the pressure on all gauges, hold for 1 minute, and bleed off.	CTU gauge: <u>1000</u> Injector gauge: <u>1000</u>	Pressure difference between gauges are $\pm 5\%$, At least 1/8 clearance between tension cylinder flat to the shoulder on the injector head.	✓	

CHAIN LUBE TEST

TEST	RECORD	EXPECTED RESULT	PASS	FAIL
Activate chain lube from CTU cabin, ensure nozzle is applying lube in the right direction onto the chain and all 4 nozzles sprays evenly.	Comments: <u>All working</u>	Lube sprays evenly from all 4 nozzles. Chain lube covers all chain rollers.	✓	

CHAIN ROTATION & DRIVE PRESSURE TEST

TEST	RECORD	EXPECTED RESULT	PASS	FAIL
Perform the following tests with NO pipe in injector head, minimum chain tension applied and with drain port open on traction cylinders. (Confirm gauges on Traction Cylinders reads 0 psi)				
Start power pack and confirm both In-hole gauge and Out-hole gauge on injector head equals charge pressure. Confirm Munson Tyson is in Neutral position and Injector Motor Pressure zeroed.	In-hole gauge: <u>300</u> Out-hole gauge: <u>300</u>	Both In-hole gauge and Out-hole gauge reads charge pressure. No leaks.	✓	
Select low gear, RIH and confirm that chains start moving at drive pressure between 500-700 psi. Continue to rotate chains for at least 10 revolutions.	Chains start moving at : <u>500</u> psi Injector Motor Displacement Pressure: <u>500</u> psi	Chain starts moving at 500 - 700 psi. No unusual noise, wrong function or hydraulic leaks and smooth operation.	✓	
Select low gear, POOH and confirm that chains start moving at drive pressure between 500-700 psi. Continue to rotate chains for 10 revolutions.	Chains start moving at : <u>500</u> psi Injector Motor Displacement Pressure: <u>500</u> psi	Chain starts moving at 500 - 700 psi. No unusual noise, wrong function or hydraulic leaks and smooth operation.	✓	

Select High gear, RIH and confirm that chains start moving at drive pressure between 500-700 psi. Continue to rotate chains for 10 revolutions.	Chains start moving at : <u>500</u> psi Injector Motor Displacement Pressure: <u>500</u> psi	Chain starts moving at 500 - 700 psi. No unusual noise, wrong function or hydraulic leaks and smooth operation.	✓	
Select High gear, POOH and confirm that chains start moving at drive pressure between 500-700 psi. Continue to rotate chains for 10 revolutions	Chains start moving at : <u>500</u> psi Injector Motor Displacement Pressure: <u>500</u> psi	Chain starts moving at 500 - 700 psi. No unusual noise, wrong function or hydraulic leaks and smooth operation.	✓	

BRAKE & CASE DRAIN LEAKAGE TEST

TEST	RECORD	EXPECTED RESULT	PASS	FAIL
Perform the following tests with a flow meter installed on each motor case drain.				
Close maintenance brake valve on injector head, then: - RIH with the injector head in low gear, 500 psi increments up to 4000 psi and hold for 1 mint. - POOH with the injector head in low gear, 500 psi increments up to 4000 psi and hold for 1 mint.	Comments: <u>Function tested from 500 up to 5000 psi</u> <u>No chain moved</u>	No chain movement No leaks from hydraulic system and PRV's.	✓	
Open maintenance brake valve on injector head, activate the injector head manual brake in the CT, then: - RIH with the injector head in low gear, 500 psi increments up to 4000 psi and hold for 1 mint. - POOH with the injector head in low gear, 500 psi increments up to 4000 psi and hold for 1 mint.	Comments: <u>Function tested from 500 up to 5000 psi</u> <u>No chain moved</u>	No chain movement No leaks from hydraulic system and PRV's.	✓	
Motor case drain leakage: During the injector head brake test, measure and record the case drain flow from each motor at the maximum motor pressure in 3 different positions (change chain position between each flow check).	Case drain flow rate (gpm)			✓
	Motor #	Position 1	Position 2	Position 3
	Motor 1	1	1	1
	Motor 2	1	1	1
	Motor 3			
	Motor 4			

COUNTERBALANCE VALVE TEST

TEST	RECORD	EXPECTED RESULT	PASS	FAIL
Perform the following tests after powerpack has been running to heat up hydraulic fluids to at least 70degF and Injector chains rotated at least 10 revolutions.				
1. With the power pack shut down and all hydraulic systems bled, disconnect the pilot hose on the dampening valve from the CB valve to be tested. Plug the hose but leave the connection at the dampening valve open. Do not adjust the dampening valve. 2. Disconnect the 1.5-inch drive hose from the CB valve to be tested. 3. Remove the 1/4" brake single hose, in-line from the CBV to be tested and plug the hose. Allow oil to drain out of the fitting. 4. After there are no more drips coming from the open port, start the power pack. 5. Confirm that there is no flow or dripping of oil from the open port. Otherwise, allow to stabilize and stop. Increase the engine to ~1800 RPM. 6. Shift the Monsun Tison in the direction of flow for the 1.5-inch drive hose that is still connected to the injector head. 7. Dial up the injector motor pressure adjust to 500 psi. Hold, and confirm that there is no hydraulic flow. 8. Increase pressure in 500 psi increments to the maximum motor pressure (~4500 psi). Monitor the hydraulic temperature at the unit during the test and do not allow to exceed 180 degF. 9. If at any time you get more than 10 drops per minute out of the open port before or after you get to full motor pressure, the CB valve is considered to be leaking.	Comments: <u>HR66</u> RIH Counterbalance Valve Results: _____ Drops/minute. POOH Counterbalance Valve Results: _____ Drops/minute.	Oil drips less than 10 drops per minute. If the chain movement exceeds 1 foot per minute, motor performance should be evaluated by measuring case drain flow.	✓	

STRIPPER ALIGNMENT TEST					
Test	RECORD	EXPECTED RESULT	PASS	FAIL	
Perform the following test with a straight bar, nozzle attached and stripper in place.					
Select low gear, RIH till nozzle is 1 inch away from stripper brass bushing.	Comments:	No noticeable horizontal or vertical offsets b/w nozzle and stripper brass bushings.			N/A
Stop and visually check for any noticeable horizontal and vertical offset between nozzle and stripper brass bushings.					
Continue running in hole and confirm straight passage of straight bar through the stripper.	Comments:	Straight bar runs through stripper smoothly and obtain true alignment.			
PULL TEST					
Test	RECORD	EXPECTED RESULT	PASS	FAIL	
Perform the following test with a pull test bar in place and area is secure.					
Perform pull test of the injector head to 80 % of maximum load, hold steady for 3 minutes, record and bleed off injector motor pressure.	Comments: performed pull test up to 59 k lbs	Injector head pulls to max capacity and holds steady, no structural or chain damage.			✓
Check load cell calibration date.	Cal Date: 30-7-2025				✓
DEPTH COUNTER CHECK (If Applicable)					
Test	RECORD	EXPECTED RESULT	PASS	FAIL	
Spin Electronic Depth Counter Wheel by hand at least 10 revolutions.	Comments:	Wheel rotates smoothly			
Confirm that one complete revolution of wheel is equal to _____ ft or m	1 rev: _____ ft or meter	N/A			
Confirm that Electronic Depth Counter wheel is properly centered with CT and secured securely fastened to injector head.	Comments:	Wheel centered with CT and secured securely fastened to injector head.			
DAS COMMUNICATION & SENSOR SETUP					
Test	RECORD	EXPECTED RESULT	PASS	FAIL	
Turn ON DAS and confirm communication.	Confirmed				✓
Confirm the communication of Load cell with DAS and verify sensor setup.	Confirmed				✓
Confirm communication of Wellhead pressure with DAS and verify sensor setup as per reference.	Confirmed				✓
Confirm communication of Depth encoder with DAS and verify same as the mechanical counter.	Confirmed				✓
COMMENTS: Describe any additional checks performed or deficiencies found					
① Functional test had been performed on the Injector Head HIR660 ② Pull tested the injector head, up to 59 k lbs ③ Brake test performed and motor case chain performed ④ Traction system and tension system functional tested					
THIS EQUIPMENT IS:			IF NOT READY FURTHER ACTION IS FROM		
✓ GREEN TAGGED AND READY TO PERFORM NEXT JOB	RED TAGGED AND NOT READY TO PERFORM NEXT JOB		Maintenance		Operation
Inspector - Name and Signature: Mohamed Kachim Nasrat Ibrahim	Supervisor - Name and Signature: Omeed Dasir	SL / MSV - Name and Signature: Mohammed Raheem			
Date: 16-12-2025	Date:	Date: 18 Dec 2025			

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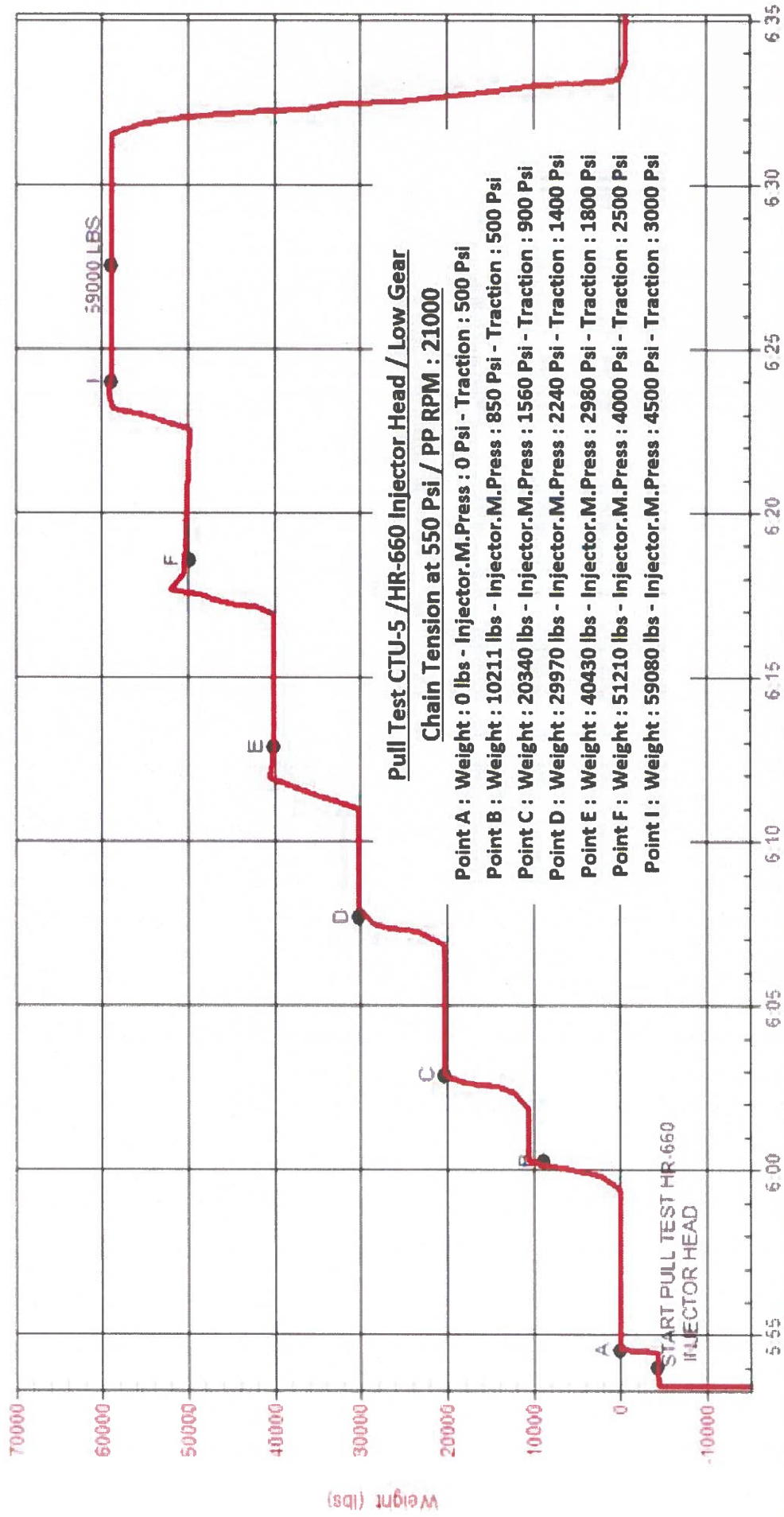
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16-Dec-2025

Customer: NESR
Well: ABERDEEN BASE
Job Type: PULL TEST CTU-5 INJECTOR HEAD

Job Start Date: December 08, 2025
Unit:
String:

Notes:



OnonNET 3.0

2

Database: 2025-12-08 CT-5 .onet
Prepared By: Engineer Dep. on December 08, 2025



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

Section 7 : Hose Reels



International
Well Control
Forum



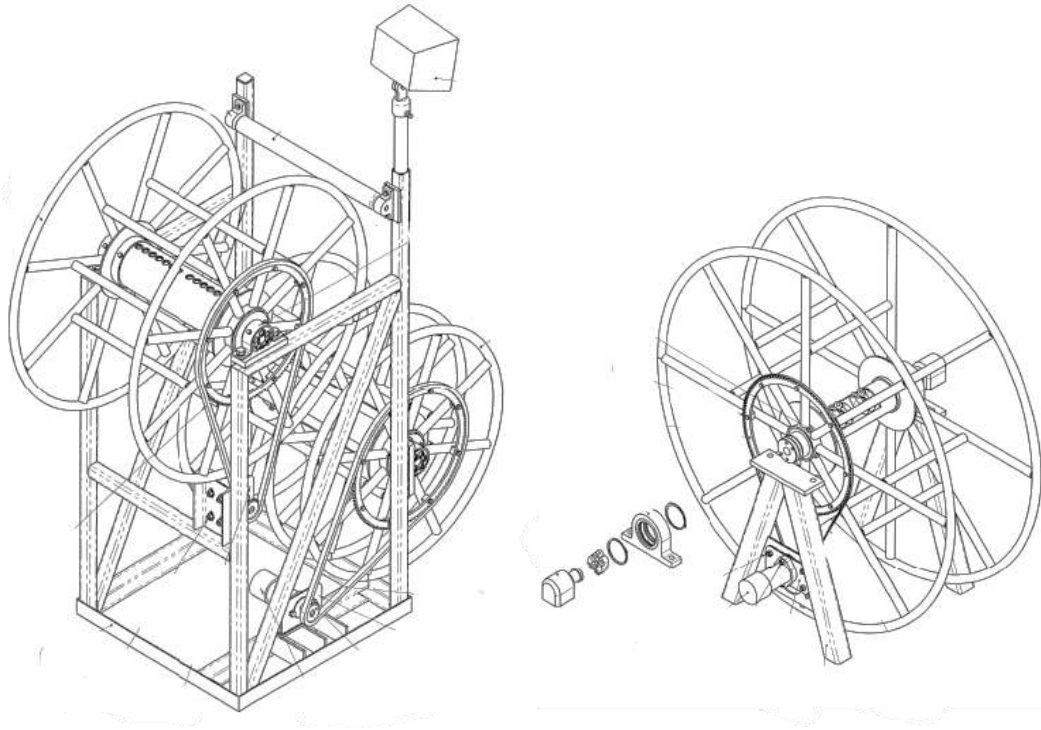
Tel: +964 7822222242 +964 7858908960

Emails: yasser.ops@aberdeents-iq.com

inspection@aberdeents-iq.com



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications



The CT5 Unit is Equipped with NOV Hydra Rig Hose Reels, with The Following Specification:

Equipment:	437 Series Coiled Tubing Unit
Owner:	National Energy Services Reunited Corp. (NESR) / Iraq Branch
Unit Number:	CT5
Reel#1:	BOP Hose Reel – 10 Ports
Reel#2:	Injector Hose Reel – 14 Ports
Reel#3:	Injector Power Hose Reel – 2 Ports
Manufacturer:	NOV Hydra Rig



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

Hose Reels - Inspection Procedure

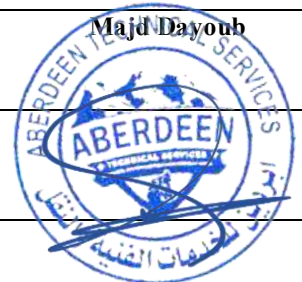
➤ The CT5 Unit is Equipped with NOV Hydra Rig Hose Reels

Action	Status
1. Properly clean and wash the Hose Reels and accessories	Done
2. Inspect all the hose reels	Done
3. Replace the hydraulic hoses of the power hose reel, injector hose reel and the BOP hose reel	Done
4. Inspect all the fittings and the quick connections	Done
5. Inspect the motors, control valves, chains & sprockets, and the bearings	Done
6. Replace and redress if necessary	Done
7. Perform the operational, and functional tests	Done
8. Prepare and submit the final inspection report	Done

*Remarks:

- Action No.7: done by NESR team

Reported By:	Hasan Omran	Reviewed By:	Majd Dayoub
Client Feedback:			



PICTORIAL:



Tel: +964 7822222242 +964 7858908960

Emails: yasser.ops@aberdeents-iq.com

inspection@aberdeents-iq.com

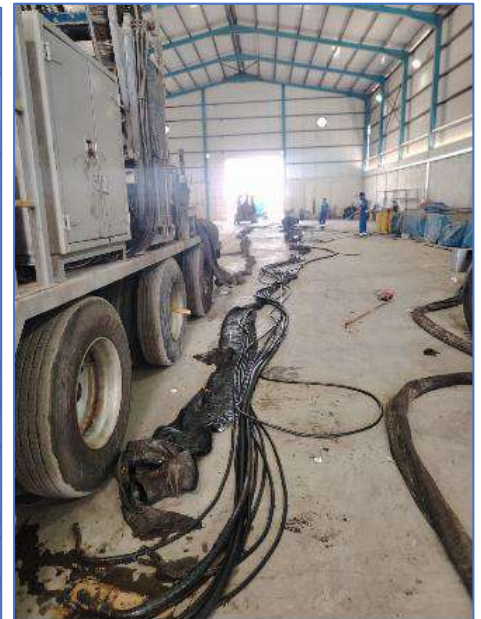


Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications



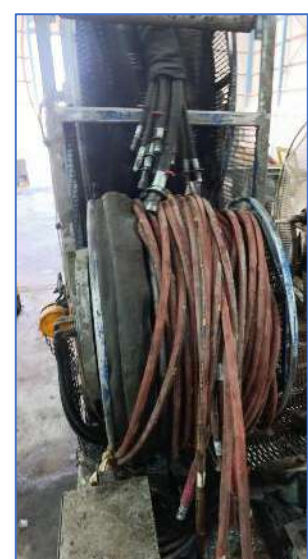


ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

MAJOR SURVEY FOR COILED TUBING UNITS – MAJOR SURVEY REPORT



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications



International
Well Control
Forum



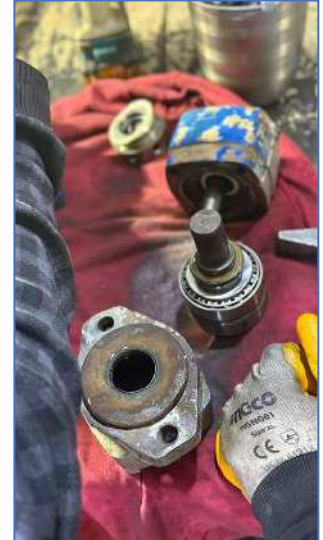
Tel: +964 7822222242 +964 7858908960

Emails: yasser.ops@aberdeents-iq.com

inspection@aberdeents-iq.com



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

Section 8 : Painting



International
Well Control
Forum



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inspection@aberdeents-iq.com



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications





ABERDEEN TECHNICAL SERVICES AND GENERAL TRANSPORTATION

MAJOR SURVEY FOR COILED TUBING UNITS – MAJOR SURVEY REPORT



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications



International
Well Control
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Tel: +964 7822222242 +964 7858908960

Emails: yasser.ops@aberdeents-iq.com

inspection@aberdeents-iq.com



Customer:	National Energy Services Reunited Corp. (NESR) / Iraq Branch	Date of Service:	30-November-2025
Type of Service:	Major survey for Coiled Tubing Units	Report No:	ATS-NESR-CT5-25-01
Unit Number:	CT5	Specification:	OEM & Client Specifications

Section 9 : Checklists / Performance Tests/ and other Documents



International
Well Control
Forum



Tel: +964 7822222242 +964 7858908960

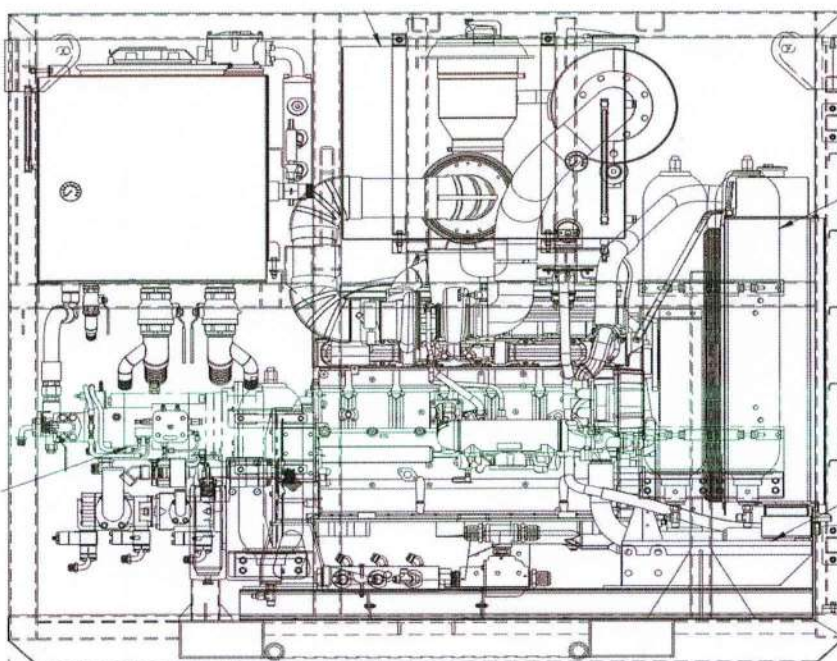
Emails: yasser.ops@aberdeents-iq.com

inspection@aberdeents-iq.com

HYDRA RIG POWER PACK PREVENTATIVE MAINTENANCE CHECKLIST

SCHEDULE PERIOD D - EVERY 5 YEARS

Applicable to NESR Units 303420 and 115742



AFFECTS THE FOLLOWING UNITS:

Assy#

70002606

Order#

500090254

Equipment #	Power Pack	Current Schedule Period
CTU - 6	7000 2606	D
Maintenance Order #	Date (dd/mm/yyyy)	Shop, Location, and #
5000 90 254	05 / November / 2025	ATS Workshop
Where was PM Performed:	INITIALS = OK F = Fail N/A = not applicable	
Vendor: Aberdeen Technical Services	1 = Component(s) not installed on unit being inspected	
Shop: ATS Workshop	2 = Task not applicable to the design of unit being inspected	
Field:		
Schedule Periods: A= Every 90 Days, B= Every 360 Days, C= Every 720 Days, D= Every 5 Years		
Before beginning this task contact Hydra Rig Aftermarket Service/Technical Support Team to verify if any product bulletins and/or updates should be applied to the reel.		
Task	RECORD AND REPORT ANY ISSUES OR DAMAGE TO SUPERVISOR	Hours
UNIT		CH
1	Clean and allow to dry.	OK
2	Visually check entire unit for damage.	OK
ENGINE INSPECTION		CH
3	Check air intake system hoses, piping, housings and connections for leaks, and/or damage or missing parts.	OK
4	Check proper operation of air restriction gauge.	OK
5	Check all mounts for missing bolts and damage.	OK
6	Check gauges for operation.	OK
7	Inspect engine for damage or excessive corrosion.	OK
8	Rebuild/Replace starter. Verify bendix has been coated in anti-seize.	OK
9	Rebuild/Replace emergency air shut down assembly.	OK
10	Rebuild/Replace fuel pump.	N/A
11	Replace injectors.	OK
12	Set Valves, injector timing, rocker arms, and rack.	OK
13	Check all hoses, lines, and connections for leaks and damage. Replace if necessary.	OK
14	Remove radiator, clean inside and out check condition.	OK
15	Pressure test cooling system and cap, check for leaks. Repair as necessary.	OK
16	Replace coolant filter if applicable.	N/A
17	Check engine coolant system for contamination.	OK
18	Drain and replace coolant.	OK
19	Replace bearings in idler pulley for belt tensioner.	OK
20	Replace bearings in fan hub and check fan assembly. Lubricate and install.	OK
21	Replace fan belts and compressor belts, adjust as required.	OK
22	Ensure guards are all in good condition, in place around fan and drive belts.	OK
23	Collect engine oil samples and submit for analysis. Record sample data.	OK
24	Check engine lubrication system for leaks or damage.	OK
25	Change engine oil and filters.	OK
26	Replace all hot oil lines.	OK
27	Check fuel system for leaks.	OK
28	Check fuel tank mounting and condition, including internal cleanliness. Drain and clean if necessary.	OK
29	Check fuel cap and vents. Check auxiliary tank condition if applicable.	N/A
30	Check condition of fuel lines, including auxiliary tank lines. Replace if required.	OK
31	Replace fuel filters.	OK
32	Replace air filters.	OK
33	Check exhaust system for leaks or damage. Where required, ensure thermal cladding is in place.	OK
34	Check for cracks in muffler flange or mounting.	OK
35	Check exhaust system for missing parts, loose mounts.	OK
36	Grease all lube points.	OK
37	Check rain cap for proper mounting.	OK

ELECTRICAL SYSTEM		CH	
38	Check batteries overall condition, clean as needed.	OK	
39	Check battery box, cover condition and mounting.	OK	
40	Check battery covers, mountings, and cable connections.	OK	
41	Check cables and wiring for routing and condition.	OK	
42	Check alternator bearings and drive belts. Replace as required.	OK	
43	Check wiring condition and connections.	OK	
44	Check wiring is properly routed and secured.	OK	
45	Check lights and repair as necessary. Check condition of reflectors and reflective tape.	OK	
AIR SYSTEM		CH	
46	Drain water from air tank and water separator.	OK	
47	Completely drain air from air receiver.	OK	
48	Visually inspect tank for corrosion. Report condition.	OK	
49	Recertify air tank system relief valve. Record and attach test certificate. Replace if required.	OK	
50	Fill lubricator with oil.	OK	
51	Replace air compressor drive belts.	OK	
52	Check air compressor drive belts and check mounting brackets and fasteners are tight.	OK	
53	Check condition of air starter motor. Replace if required.	OK	
54	Fill air tank with 120 psi air and check for leaks.	OK	
GEARBOX		CH	
55	Check for leaks.	OK	
56	Check oil level and condition. Collect oil samples and submit for analysis.	OK	
57	Drain oil and check for metal debris.	OK	
58	Fill to appropriate level. DO NOT OVERFILL.	OK	
59	Check gearbox breather function and cleanliness.	OK	
HYDRAULIC SYSTEM		CH	
60	Collect hydraulic oil sample and send for contamination analysis.	OK	
61	Drain off all hydraulic oil from tank.	OK	
62	Remove, clean and inspect hydraulic tank suction strainers.	OK	
63	Strip, Inspect, Refurbish, and bench test or replace Injector pump, reset settings to drawing.	OK	
64	Strip, Inspect, Refurbish, and bench test or replace Reel Replenish/BOP pump, reset settings to drawing.	OK	
65	Strip, Inspect, Refurbish, and bench test or replace Priority/Level wind pump, reset settings to drawing.	OK	
66	Strip, Inspect, Refurbish, and bench test or replace Reel pump, reset settings to drawing.	OK	
67	Strip, Inspect, Refurbish, and bench test or replace cooling fan drive motors.	OK	
68	Any hydraulic pumps and motors which have been refurbished must be fully bench tested before installation.	OK	
69	If accumulator bladders are <5 years old, replace with new bladders.	OK	
70	Clean hydraulic tank.	OK	
71	Replace all hydraulic filters.	OK	
72	Inspect all hydraulic hose and replace if wear from rubbing is evident, rubber is cracking, there are any exposed wires.	OK	
73	Replace all hydraulic quick couplings.	OK	
74	Strip and replace multi coupler male and female connections.	OK	
75	Replace hot oil shuttle pressure reducing and shuttle cartridge.	OK	
76	Replace reel remote pilot and relief valve.	OK	
77	Replace damaged hydraulic gauges. Check they go to Zero, replace if necessary.	OK	
78	Hydraulic Cooler Drain and Inspect, Clean.	OK	
79	Check Hydraulic Cooler Fan Speed is 2500RPM and adjust accordingly.	OK	
80	Replace Amot thermatic valve.	OK	
81	Fill hydraulic tank with correct hydraulic fluid, refer to maintenance manual.	OK	
82	Fill all pump and motor case drains with hydraulic fluid.	OK	
83	Check the ALL tank suction valves are open before unit startup.	OK	
84	Check for hydraulic leaks, repair as required.	OK	

FRAME OUTER		CH	
85	Clean and allow to dry.	OK	
86	Visually check entire unit for damage.	OK	
87	Visually inspect welds for cracks.	OK	
88	Verify drain plugs are in drip pan & drip pan is clean and dry.	OK	
89	Verify condition of forklift pockets and are clean.	OK	
90	MPI all welds. Record any damage. Any weld repairs must be carried out using verified weld procedures, and qualified, certified welders.	OK	
91	Carry out post weld MPI.	OK	
92	Carry out full post load test MPI on all major structural welds.	OK	
93	Inspect pad eyes and pins for wear and measure critical dimensions, compare findings with manufacturer drawings – recommendations. Replace if out of tolerance. Ensure all locking/safety pins are fitted and in good condition.	OK	
94	Check all frame pivot joints for wear if applicable, measure critical dimensions, compare findings with manufacturer drawings – recommendations. Replace if out of tolerance.	OK	
LIFTING SYSTEM		CH	
95	Visual inspection of lifting eyes and welds on frame.	OK	
96	Visual inspection of shackles and fixing cotter pins.	N/A	
97	Have an approved vendor perform MPI inspection on all lifting points and welds on frame. If repairs Are required have MPI performed again after repairs are made.	OK	
98	Have an approved vendor inspect lifting slings accordingly and provide certification tags. Record: (all should be noted on certification tag).	N/A	
		Total Hours	

LIST ALL DEFECTS FOUND DURING THE PM INSPECTION, INCLUDE AN APPROPRIATE EXPLANATION.

Note: An comment line will be required for each defect/repair.

1. Engine CAT C15 has been overhauled using CAT Genuine parts and kits
2. All hydraulic and fuel filters have been replaced
3. All hydraulic hoses have been replaced
4. All hydraulic pumps have been removed, disassembled, checked, and redressed
The Bop hydraulic pump has been replaced by brand new one
5. pressure ganges and valves have been replaced
6. Engine fan belts have been replaced with brand new
7. Hydraulic pumps' Gearbox has been removed, disassembled and redressed,
re-installed and filled with new Gear oil
8. The Fabco Transfer case (PTO) has been removed, disassembled and redressed
, re-installed and filled with new Gear oil
9. The Eaton Fuller Transmission has been removed, and the input shaft
has been replaced with brand new,
The Transmission has been re-installed and filled with new Gearoil
10. The drive shafts has been removed, checked, and re-installed with new
universal Joints spiders / Yokes as necessary.
11. The hydraulic oil has been discharged and replaced with new oil
12. The Engine has been equipped with new heavy duty clutch with
new pilot bearings

Order	500090250	Order Type	PMWO	preventive maintenance
Description	PERFORM MAJOR REFURBISHMENT FOR CTU-5 IH			
Start date	Sep 28, 2025	End date	Oct 8, 2025	
Priority				
Status	REL GMPS MANC SETC			
Funct. location	NSR-IRQ-NPE-BAS-CTS-CTI		Injector Head	
Equipment	70002603		INJECTOR HEAD (CT-5) HR660	
Assembly				
Location	BASRA		Room	
PM planner grp	BAS	BASRA Planner	PM plant	PM65
Main work center	IRQWC01 1165	BASRA Center		
Maintenance plan	Maint. plan item			
Revision number				

Operation	0010	PERFORM MAJOR REFURBISHMENT FOR CTU-5 IH
Status	REL	
Work center	IRQWC01 1165	BASRA Center
Control key	PM01	Confirmation number 1117616
Operation key		Milestone
Funct. Location		
Equipment		
Responsible	5232	Fadhil Abdulkhaleq Abed
Work	2 H	Activity Type
Duration	2 H	Number 1
Earliest start date	Sep 28, 2025	Start time 08:00:00
Latest end date	Sep 28, 2025	End time 10:17:09
Actual Labor	0 H	Total float 0 H

Material	1100000110643
	KIT SEALTRACTION CYLINDER P/N HCD00226
Quantity	6 EA
Purchase requisition	Status REL
Reservation number	258488 Plant / storage location 1165 / 2702
Unloading Point	Goods recipient

Material	1100000096400
	Wika pressure gauge 3000psi
Quantity	3 EA
Purchase requisition	Status REL
Reservation number	258488 Plant / storage location 1165 / 2702
Unloading Point	Goods recipient

Material	1100000096402
	Wika pressure gauge 10000psi
Quantity	2 EA
Purchase requisition	Status REL
Reservation number	258488 Plant / storage location 1165 / 2702
Unloading Point	Goods recipient

Material	1100000096399		
	Wika pressure gauge 1500psi		
Quantity	1 EA		
Purchase requisition		Status	REL
Reservation number	258488	Plant / storage location	1165 / 2702
Unloading Point		Goods recipient	
Material	1100000096396		
	Wika pressure gauge 160 psi		
Quantity	1 EA		
Purchase requisition		Status	REL
Reservation number	258488	Plant / storage location	1165 / 2702
Unloading Point		Goods recipient	
Material	1100000096402		
	Wika pressure gauge 10000psi		
Quantity	3 EA		
Purchase requisition		Status	REL
Reservation number	258488	Plant / storage location	1165 / 2702
Unloading Point		Goods recipient	
Material	CHAIN TENSION CYLINDER		
Quantity	4 EA		
Purchase requisition		Status	REL
Reservation number	258488	Plant / storage location	1165 /
Unloading Point		Goods recipient	
Material	BRAKE REBAIR KIT		
Quantity	2 EA		
Purchase requisition		Status	REL
Reservation number	258488	Plant / storage location	1165 /
Unloading Point		Goods recipient	
Material	INJECTOR MOTOR SEALS		
Quantity	2 EA		
Purchase requisition		Status	REL
Reservation number	258488	Plant / storage location	1165 /
Unloading Point		Goods recipient	
Material	INJECTOR MOTOR SHAFT 12/24		
Quantity	2 EA		
Purchase requisition		Status	REL
Reservation number	258488	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Time Ticket

Confirmation number 1117616



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0020	REDRESS THE TRACTION CYLINDERS
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241326
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	48 H	Activity Type
Duration	16 H	Number 3
Earliest start date	Sep 28, 2025	Start time 10:17:09
Latest end date	Sep 30, 2025	End time 12:34:18
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241326



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0030	REPLACE THE TENSION CYLINDERS
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241327
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	12 H	Activity Type
Duration	4 H	Number 3
Earliest start date	Sep 30, 2025	Start time 12:34:18
Latest end date	Oct 1, 2025	End time 09:08:35
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241327



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0040	REDRESS THE INJECTOR MOTOR BRAKE
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241328
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	24 H	Activity Type
Duration	8 H	Number 3
Earliest start date	Oct 1, 2025	Start time 09:08:35
Latest end date	Oct 2, 2025	End time 10:17:09
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241328



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0050	REDRESS THE INJECTOR MOTOR
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241329
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	24 H	Activity Type
Duration	8 H	Number 3
Earliest start date	Oct 2, 2025	Start time 10:17:09
Latest end date	Oct 5, 2025	End time 11:25:43
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241329



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0060	REPLACE THE BRAKE CONTROL VALVE
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241330
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	3 H	Activity Type
Duration	3 H	Number 1
Earliest start date	Oct 5, 2025	Start time 11:25:43
Latest end date	Oct 5, 2025	End time 14:51:26
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241330



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0070	INSPECT & REDRESS THE TORQUE HUB
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241331
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	36 H	Activity Type
Duration	9 H	Number 4
Earliest start date	Oct 5, 2025	Start time 14:51:26
Latest end date	Oct 7, 2025	End time 09:08:35
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241331



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0080	INSPECT THE INJECTOR CHAINS
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241332
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	24 H	Activity Type
Duration	6 H	Number 4
Earliest start date	Oct 7, 2025	Start time 09:08:35
Latest end date	Oct 8, 2025	End time 08:00:01
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241332



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0090	REPLACE THE PRESSURE GAUGES
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241333
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	4 H	Activity Type
Duration	2 H	Number 2
Earliest start date	Oct 8, 2025	Start time 08:00:01
Latest end date	Oct 8, 2025	End time 10:17:10
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241333



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0100		INSPECT THE CHAIN LUBE SYSTEM
Status	REL		
Work center	IRQWC01	1165	BASRA Center
Control key	PM01		Confirmation number 1241334
Operation key			Milestone
Funct. Location			
Equipment			
Responsible			
Work	3	H	Activity Type
Duration	1.5	H	Number 2
Earliest start date	Oct 8, 2025		Start time 10:17:10
Latest end date	Oct 8, 2025		End time 12:00:01
Actual Labor	0	H	Total float 0 H

Time Ticket

Confirmation number 1241334



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Object list for order : 500090250**PERFORM MAJOR REFURBISHMENT FOR CTU-5 IH**

Sort field

Processing status

Funct. location NSR-IRQ-NPE-BAS-C

Injector Head

Equipment 70002603

INJECTOR HEAD (CT-5) HR660

Assembly

Serial number

Material

Notification 700236815

PERFORM MAJOR REFURBISHMENT FOR CTU-5 IH

End of report

Order	500090254	Order Type	PMWO	preventive maintenance
Description	PERFORM MAJOR REFURBISHMENT FOR CTU-6 PP			
Start date	Sep 28, 2025	End date	Nov 6, 2025	
Priority				
Status	REL GMPS MANC SETC			
Funct. location	NSR-IRQ-NPE-BAS-CTS-CTP		CT Power pack	
Equipment	70002606		TRACTOR / POWER PACK (CT-6) CAT C15	
Assembly				
Location	BASRA		Room	
PM planner grp	BAS	BASRA Planner	PM plant	PM65
Main work center	IRQWC01 1165	BASRA Center		
Maintenance plan	Maint. plan item			
Revision number				

Operation	0010	PERFORM MAJOR REFURBISHMENT FOR CTU-6 PP
Status	REL	
Work center	IRQWC01 1165	BASRA Center
Control key	PM01	Confirmation number 1117622
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	72 H	Activity Type
Duration	18 H	Number 4
Earliest start date	Sep 28, 2025	Start time 08:00:00
Latest end date	Sep 30, 2025	End time 12:34:17
Actual Labor	0 H	Total float 0 H

Material	1100000008182		
	FILTER HYD FLEET GUARD/HF7468		
Quantity	3 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 / 2702
Unloading Point		Goods recipient	

Material	1100000102240		
	P11/14 SEAL KITS S23-17032-0		
Quantity	1 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 / 2702
Unloading Point		Goods recipient	

Material	1100000007301		
	14 GPM cartridge rear/seals		
Quantity	1 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material	1100000007947		
	DENISON VANE PUMP/024-49813-0/03		
Quantity	1 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	
Material	1100000003915		
	Denison Vane Pump		
Quantity	1 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	
Material	1100000008447		
	HYD MOTOR- LOW RPM -485		
Quantity	1 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	
Material	1100000009240		
	PUMP, GEAR,1.79, SAE-B2		
Quantity	1 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	
Material	1100000083199		
	COIL, W/DIN, 12VDC PN 517-00216-0		
Quantity	4 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 / 2702
Unloading Point		Goods recipient	
Material	1100000110942		
	VALVE , CARTRIDGE		
Quantity	2 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 / 2702
Unloading Point		Goods recipient	
Material	1100000008633		
	Level gauge 5"		
Quantity	2 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material	1100000096401		
	Wika pressure gauge 5000psi		
Quantity	3 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	
Material	1100000096398		
	Wika pressure gauge 1000psi		
Quantity	1 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	
Material	1100000008176		
	FILTER HYD FLEETGUARD		
Quantity	3 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	
Material	1100000008182		
	FILTER HYD FLEET GUARD/HF7468		
Quantity	2 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	
Material	1100000008177		
	FILTER HYD FLEET GUARD/HF06782		
Quantity	2 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	
Material	1100000008175		
	Fleetguard Hydraulic Filte		
Quantity	1 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	
Material	1100000008052		
	Engine Oil 15 W 40		
Quantity	1 DR		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material **1100000013750**
COOLANT 33%
Quantity **1 DR**

Purchase requisition Status REL
Reservation number 258493 Plant / storage location 1165 /
Unloading Point Goods recipient

Material **1100000017135**
GEAR OIL TDTO50
Quantity **1 DR**

Purchase requisition Status REL
Reservation number 258493 Plant / storage location 1165 /
Unloading Point Goods recipient

Material **1100000008487**
Hydraulic oil 30
Quantity **6 DR**

Purchase requisition Status REL
Reservation number 258493 Plant / storage location 1165 /
Unloading Point Goods recipient

Time Ticket

Confirmation number 1117622



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____ Time Required _____

Signature _____

Operation **0020** **REBUILD THE CAT C15 ENGINE**
Status REL
Work center IRQWC01 1165 BASRA Center
Control key PM01 Confirmation number 1241176
Operation key Milestone
Funct. Location
Equipment
Responsible

Work	80	H	Activity Type	
Duration	20	H	Number	4
Earliest start date	Sep 30, 2025		Start time	12:34:17
Latest end date	Oct 5, 2025		End time	11:25:43
Actual Labor	0	H	Total float	0 H

Material	1100000010804		
	FUEL /WATER SEPERATOR FS19624,FS19728		
Quantity	1 EA		
Purchase requisition		Status	REL
Reservation number	258493	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Time Ticket

Confirmation number 1241176



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____ Time Required _____

Signature _____

Operation	0030		REPLACE THE CLUTCH
Status	REL		
Work center	IRQWC01	1165	BASRA Center
Control key	PM01		Confirmation number 1241177
Operation key			Milestone
Funct. Location			
Equipment			
Responsible			
Work	12	H	Activity Type
Duration	4	H	Number 3
Earliest start date	Oct 5, 2025		Start time 11:25:43
Latest end date	Oct 5, 2025		End time 16:00:00
Actual Labor	0	H	Total float 0 H

Time Ticket

Confirmation number 1241177



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0040	REPLACE TRANSMISSION INPUT SHAFT
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241178
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	12 H	Activity Type
Duration	4 H	Number 3
Earliest start date	Oct 6, 2025	Start time 08:00:00
Latest end date	Oct 6, 2025	End time 12:34:17
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241178



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0050	REPLACE U-JOINT
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241179
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	12 H	Activity Type
Duration	4 H	Number 3
Earliest start date	Oct 6, 2025	Start time 12:34:17
Latest end date	Oct 7, 2025	End time 09:08:34
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241179



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0060	REDRESS THE TRANSFER CASE
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241180
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	24 H	Activity Type
Duration	8 H	Number 3
Earliest start date	Oct 7, 2025	Start time 09:08:34
Latest end date	Oct 8, 2025	End time 10:17:08
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241180



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0070	REPLACE DAMAGED HOSE
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241181
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	72 H	Activity Type
Duration	18 H	Number 4
Earliest start date	Oct 8, 2025	Start time 10:17:08
Latest end date	Oct 12, 2025	End time 14:51:25
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241181



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0080		REPLACE THE AIR HOSES-PNUEMATIC SYSTEM
Status	REL		
Work center	IRQWC01	1165	BASRA Center
Control key	PM01		Confirmation number 1241182
Operation key			Milestone
Funct. Location			
Equipment			
Responsible			
Work	72	H	Activity Type
Duration	18	H	Number 4
Earliest start date	Oct 12, 2025		Start time 14:51:25
Latest end date	Oct 15, 2025		End time 11:25:42
Actual Labor	0	H	Total float 0 H

Time Ticket

Confirmation number 1241182



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0090	FIX THE ELECTRICAL SYSTEM
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241183
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	72 H	Activity Type
Duration	36 H	Number 2
Earliest start date	Oct 15, 2025	Start time 11:25:42
Latest end date	Oct 22, 2025	End time 12:34:16
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241183



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0100	REPAIR THE SUSPENSION SYSTEM
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241184
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	72 H	Activity Type
Duration	18 H	Number 4
Earliest start date	Oct 22, 2025	Start time 12:34:16
Latest end date	Oct 27, 2025	End time 09:08:33
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241184



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0110		FIX/REPAIR THE LIGHTS
Status	REL		
Work center	IRQWC01	1165	BASRA Center
Control key	PM01		Confirmation number 1241185
Operation key			Milestone
Funct. Location			
Equipment			
Responsible			
Work	48	H	Activity Type
Duration	24	H	Number 2
Earliest start date	Oct 27, 2025		Start time 09:08:33
Latest end date	Oct 30, 2025		End time 12:34:16
Actual Labor	0	H	Total float 0 H

Time Ticket

Confirmation number 1241185



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0120	REDRESS THE MAIN HYDRAULIC PUMP
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241186
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	24 H	Activity Type
Duration	12 H	Number 2
Earliest start date	Oct 30, 2025	Start time 12:34:16
Latest end date	Nov 3, 2025	End time 10:17:07
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241186



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0130	REPLACE THE BOP PUMP
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241187
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	12 H	Activity Type
Duration	6 H	Number 2
Earliest start date	Nov 3, 2025	Start time 10:17:07
Latest end date	Nov 4, 2025	End time 09:08:33
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241187



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0140		REDRESS THE HYDRAULIC PUMPS
Status	REL		
Work center	IRQWC01	1165	BASRA Center
Control key	PM01		Confirmation number 1241188
Operation key			Milestone
Funct. Location			
Equipment			
Responsible			
Work	24	H	Activity Type
Duration	8	H	Number 3
Earliest start date	Nov 4, 2025		Start time 09:08:33
Latest end date	Nov 5, 2025		End time 10:17:07
Actual Labor	0	H	Total float 0 H

Time Ticket

Confirmation number 1241188



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0150	REPLACE THE RADIATOR
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241322
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	12 H	Activity Type
Duration	4 H	Number 3
Earliest start date	Nov 5, 2025	Start time 10:17:07
Latest end date	Nov 5, 2025	End time 14:51:24
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241322



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0160	REDRESS THE ACCUMULATORS
Status	REL	
Work center	IRQWC01 1165	BASRA Center
Control key	PM01	Confirmation number 1241324
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	12 H	Activity Type
Duration	6 H	Number 2
Earliest start date	Nov 5, 2025	Start time 14:51:24
Latest end date	Nov 6, 2025	End time 13:42:50
Actual Labor	0 H	Total float 0 H

Material	1100000104545
	BLADDER REPAIR KIT, 11 GAL

Quantity 1 EA

Purchase requisition

Reservation number 258493

Unloading Point

Status

Plant / storage location

Goods recipient

REL

1165 /

Material	1100000104544
	BLADDER REPAIR KIT, 10 GAL

Quantity 1 EA

Purchase requisition

Reservation number 258493

Unloading Point

Status

Plant / storage location

Goods recipient

REL

1165 /

Time Ticket

Confirmation number 1241324



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Object list for order : 500090254**PERFORM MAJOR REFURBISHMENT FOR CTU-6 PP**

Sort field

Processing status

Funct. location NSR-IRQ-NPE-BAS-C

CT Power pack

Equipment 70002606

TRACTOR / POWER PACK (CT-6) CAT C15

Assembly

Serial number

Material

Notification 700236819

PERFORM MAJOR REFURBISHMENT FOR CTU-6 PP

End of report

Order	500090252	Order Type	PMWO	preventive maintenance
Description	PERFORM MAJOR REFURBISHMENT FOR CTU-5 TR			
Start date	Sep 28, 2025	End date	Nov 5, 2025	
Priority				
Status	REL MANC SETC			
Funct. location	NSR-IRQ-NPE-BAS-CTS-CTT	CT Combo Trailer		
Equipment	70002599	TRAILER (CT-5)		
Assembly				
Location	BASRA	Room		
PM planner grp	BAS	BASRA Planner	PM plant	PM65
Main work center	IRQWC01 1165	BASRA Center		
Maintenance plan	Maint. plan item			
Revision number				

Class	EQUIP_CAT	Equipment CAT Classification	002
EQUIP_CAT		CAT 1	

Operation	0010	PERFORM MAJOR REFURBISHMENT FOR CTU-5 T		
Status	REL			
Work center	IRQWC01 1165	BASRA Center		
Control key	PM01	Confirmation number	1117619	
Operation key		Milestone		
Funct. Location				
Equipment				
Responsible				
Work	80 H	Activity Type		
Duration	20 H	Number	4	
Earliest start date	Sep 28, 2025	Start time	08:00:00	
Latest end date	Sep 30, 2025	End time	14:51:26	
Actual Labor	0 H	Total float	0 H	

Material	1100000014706			
	TIRES 11R 22.5			
Quantity	14 EA			
Purchase requisition		Status	REL	
Reservation number	258491	Plant / storage location	1165 /	
Unloading Point		Goods recipient		

Material	INJECTOR POWER HOSE 1.25" x 125'			
Quantity	2 EA			
Purchase requisition		Status	REL	
Reservation number	258491	Plant / storage location	1165 /	
Unloading Point		Goods recipient		

Material

Quantity	INJECTOR POWER HOSE 1.25" X 65' 2 EA		
Purchase requisition		Status	REL
Reservation number	258491	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material

Quantity	INJECTOR CONTROL HOSE, 1/2" X 125' 14 EA		
Purchase requisition		Status	REL
Reservation number	258491	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material

Quantity	INJECTOR CONTROL HOSE 1/2" X 65' 14 EA		
Purchase requisition		Status	REL
Reservation number	258491	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material

Quantity	CASE DRAIN HOSE 1" X 125' 1 EA		
Purchase requisition		Status	REL
Reservation number	258491	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material

Quantity	INJECTOR CASE DRAIN HOSE 1" X 65' 1 EA		
Purchase requisition		Status	REL
Reservation number	258491	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material

Quantity	BOP HOSE FIRE PROOF 1/2" X 125' 10 EA		
Purchase requisition		Status	REL
Reservation number	258491	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material

Quantity	BOP HOSE FIRE PROOF 1/2" X 65' 10 EA		
Purchase requisition		Status	REL
Reservation number	258491	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material**HYSAULIC HOSE 1.25" X 21'**

Quantity

2 EA

Purchase requisition

Reservation number

Unloading Point

258491

Status

Plant / storage location

Goods recipient

REL

1165 /

Material**HYDRAULIC HOSE 1" X 21'**

Quantity

1 EA

Purchase requisition

Reservation number

Unloading Point

258491

Status

Plant / storage location

Goods recipient

REL

1165 /

Material**HYDRAULIC HOSE 3/4" X 21'**

Quantity

4 EA

Purchase requisition

Reservation number

Unloading Point

258491

Status

Plant / storage location

Goods recipient

REL

1165 /

Material**HYDRAULIC HOSE 1/2" X 21'**

Quantity

4 EA

Purchase requisition

Reservation number

Unloading Point

258491

Status

Plant / storage location

Goods recipient

REL

1165 /

Material**HYDRAULIC HOSE 3/8" X 21**

Quantity

6 EA

Purchase requisition

Reservation number

Unloading Point

258491

Status

Plant / storage location

Goods recipient

REL

1165 /

Material**HYDRAULIC HOSE 1/4" X 21'**

Quantity

4 EA

Purchase requisition

Reservation number

Unloading Point

258491

Status

Plant / storage location

Goods recipient

REL

1165 /

Material**AIR SUSPENSION SPRING**

Quantity

6 EA

Purchase requisition

Reservation number

Unloading Point

258491

Status

Plant / storage location

Goods recipient

REL

1165 /

Material**BRAKE CHAMBER**
Quantity 6 EA

Purchase requisition		Status	REL
Reservation number	258491	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material**AIR HOSE**
Quantity 2 ROL

Purchase requisition		Status	REL
Reservation number	258491	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material**ELECTRIC CABLE FOR LIGHTS**
Quantity 1 ROL

Purchase requisition		Status	REL
Reservation number	258491	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material**TAILLIGHT-LED**
Quantity 2 EA

Purchase requisition		Status	REL
Reservation number	258491	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material**SIDE LIGHTS**
Quantity 10 EA

Purchase requisition		Status	REL
Reservation number	258491	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material**BRAKE LINNING**
Quantity 6 EA

Purchase requisition		Status	REL
Reservation number	258491	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Time Ticket

Confirmation number 1117619



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0020	REPAIR THE SUSPENSION SYSTEM
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241348
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	100 H	Activity Type
Duration	25 H	Number 4
Earliest start date	Sep 30, 2025	Start time 14:51:26
Latest end date	Oct 6, 2025	End time 11:25:43
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241348



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0030		REPAIR THE BRAKE SYSTEM
Status	REL		
Work center	IRQWC01	1165	BASRA Center
Control key	PM01		Confirmation number 1241349
Operation key			Milestone
Funct. Location			
Equipment			
Responsible			
Work	72	H	Activity Type
Duration	18	H	Number 4
Earliest start date	Oct 6, 2025		Start time 11:25:43
Latest end date	Oct 8, 2025		End time 16:00:00
Actual Labor	0	H	Total float 0 H

Time Ticket

Confirmation number 1241349



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0040	REPLACE THE HYDRAULIC HOSES
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241350
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	80 H	Activity Type
Duration	20 H	Number 4
Earliest start date	Oct 9, 2025	Start time 08:00:00
Latest end date	Oct 13, 2025	End time 14:51:26
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241350



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0050	REDRESS THE HOSE REEL MOTORS
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241351
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	80 H	Activity Type
Duration	20 H	Number 4
Earliest start date	Oct 13, 2025	Start time 14:51:26
Latest end date	Oct 16, 2025	End time 13:42:52
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241351



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0060	REPLACE THE AIR HOSES
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241352
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	72 H	Activity Type
Duration	18 H	Number 4
Earliest start date	Oct 16, 2025	Start time 13:42:52
Latest end date	Oct 21, 2025	End time 10:17:09
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241352



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0070	REPLACE CABLE OF THE LIGHTS
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241353
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	48 H	Activity Type
Duration	24 H	Number 2
Earliest start date	Oct 21, 2025	Start time 10:17:09
Latest end date	Oct 26, 2025	End time 13:42:52
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241353



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0080	REPLACE THE TRAILER LIGHTS
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241354
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	48 H	Activity Type
Duration	24 H	Number 2
Earliest start date	Oct 26, 2025	Start time 13:42:52
Latest end date	Oct 30, 2025	End time 09:08:35
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241354



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0090	REDRESS HYDRAULIC CYLINDERS OF IH TILT
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241355
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	48 H	Activity Type
Duration	16 H	Number 3
Earliest start date	Oct 30, 2025	Start time 09:08:35
Latest end date	Nov 3, 2025	End time 11:25:44
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241355



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0100	REPLACE THE TIRES
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241356
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	48 H	Activity Type
Duration	12 H	Number 4
Earliest start date	Nov 3, 2025	Start time 11:25:44
Latest end date	Nov 5, 2025	End time 09:08:35
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241356



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Object list for order : 500090252**PERFORM MAJOR REFURBISHMENT FOR CTU-5 TR**

Sort field

Processing status

Funct. location NSR-IRQ-NPE-BAS-C

CT Combo Trailer

Equipment 70002599

TRAILER (CT-5)

Assembly

Serial number

Material

Notification 700236817

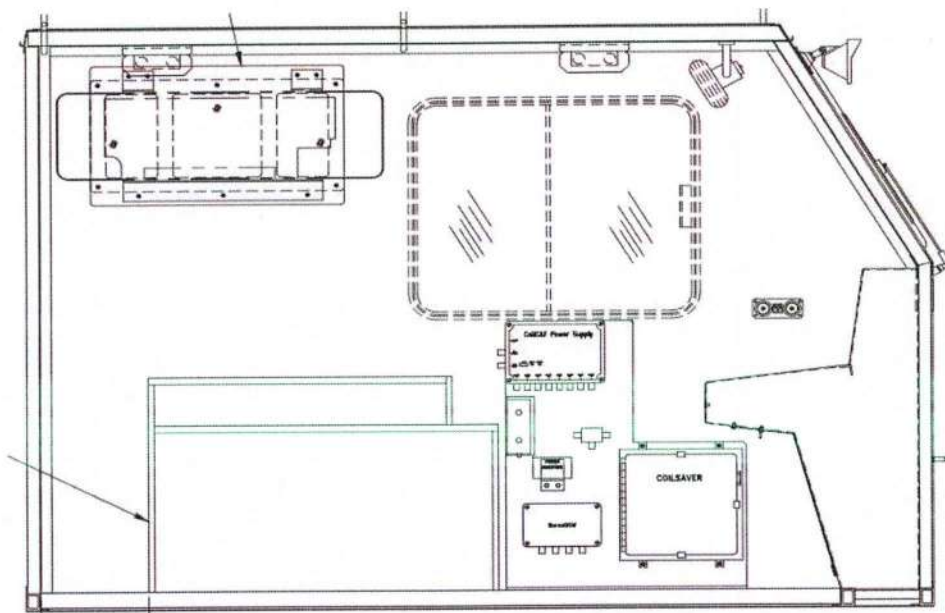
PERFORM MAJOR REFURBISHMENT FOR CTU-5 TR

End of report

HYDRA RIG CONTROL CABIN PREVENTATIVE MAINTENANCE CHECKLIST

SCHEDULE PERIOD D - EVERY 5 YEARS

Applicable to NESR Units 116226 and 116225



AFFECTS THE FOLLOWING UNITS:

Assy#

70002601

Order#

500090251

Equipment #	Control Cabin	Current Schedule Period
CTU-5	70002601	D
Maintenance Order #	Date (dd/mm/yyyy)	Shop, Location, and #
500090251	22 / October / 2025	ATS Workshop
Where was PM Performed:	INITIALS = OK F = Fail N/A = not applicable	
Vendor: Aberdeen Technical Services	1 = Component(s) not installed on unit being inspected	
Shop: ATS Workshop	2 = Task not applicable to the design of unit being inspected	
Field:		
Schedule Periods: A= Every 90 Days, B= Every 360 Days, C= Every 720 Days, D= Every 5 Years		
Before beginning this task contact Hydra Rig Aftermarket Service/Technical Support Team to verify if any product bulletins and/or updates should be applied to the reel.		
Task	RECORD AND REPORT ANY ISSUES OR DAMAGE TO SUPERVISOR	Hours
UNIT	CH	
1	Clean and allow to dry.	OK
2	Inspect main window for cracks or visible damage, replace if necessary.	OK
3	Visually check entire unit for damage.	OK
CONTROL CONSOLE	CH	
4	Verify functioning weight indicator gauge.	OK
5	Verify functioning wellhead pressure gauge.	OK
6	Verify functioning circulating pressure gauge.	OK
7	Check all pressure gauges for correct operation. Replace any gauges with wrong readings or do not zero.	OK
8	Check that emergency backup handpump works and is able to provide pressure.	OK
9	Verify that hydraulic oil temperature gauge matches actual hydraulic tank temperature.	OK
10	Verify engine display module reads engine RPM and error codes.	OK
11	Test emergency engine stop, engine stop, and throttle controls.	OK
12	Check all hoses, lines, and connections for leaks and damage. Replace if necessary.	OK
13	Check all valves for leaks correct functioning.	OK
14	Check horn function.	OK
15	Check window wipers function correctly.	OK
16	Replace all sun valves cartridges.	OK
17	Replace seal kit Haskell pump (Fluid).	OK
18	Replace seal kit Haskell pump (Air).	N/A
ELECTRICAL SYSTEM	CH	
19	Check cables and wiring for routing and condition.	OK
20	Check wiring connections and termination points for loose wires.	OK
21	Check wiring is properly routed and secured and is not rubbing through sheathing.	OK
22	Verify AC is working and check last know recharge date.	OK
23	Verify all external lights are working.	OK
24	Verify all internal lights are working.	OK
LIFTING SYSTEM	CH	
25	Visual inspection of lifting eyes and welds on frame.	N/A
26	Visual inspection of shackles and fixing cotter pins.	N/A
27	Have an approved vendor perform MPI inspection on all lifting points and welds on frame. If repairs are required have MPI performed again after repairs are made.	N/A
28	Have an approved vendor inspect lifting slings accordingly and provide certification tags. Record: (all should be noted on certification tag).	N/A
Total	Hours	

LIST ALL DEFECTS FOUND DURING THE PM INSPECTION, INCLUDE AN APPROPRIATE EXPLANATION.

Note: An comment line will be required for each defect/repair.

1. The electrical system has been inspected and all the valve solenoid cables have been replaced with brand new.
2. The electrical and Data connectors have been replaced
3. The Bop control valve inter-connection hoses have been replaced
4. The control cabin panel hoses have been inspected and the bad condition ones have been replaced
5. The pressure gauges have been inspected and the bad ones replaced
6. The floor mat and the operator seat have been refurbished
7. One of the side window glasses has been replaced
8. The cabin lifting system has been redressed
- 9.
- 10.
- 11.
- 12.

Order	500090251	Order Type	PMWO	preventive maintenance
Description	PERFORM MAJOR REFURBISHMENT FOR CTU-5 CC			
Start date	Sep 28, 2025	End date	Oct 23, 2025	
Priority				
Status	REL MANC SETC			
Funct. location	NSR-IRQ-NPE-BAS-CTS-CTC		Coiled Tubing Cabin	
Equipment	70002601		CONTROL CABINE (CT-5)	
Assembly				
Location	BASRA		Room	
PM planner grp	BAS	BASRA Planner	PM plant	PM65
Main work center	IRQWC01 1165	BASRA Center		
Maintenance plan	Maint. plan item			
Revision number				

Class	EQUIP_CAT	Equipment CAT Classification	002
EQUIP_CAT		CAT 1	

Operation	0010	PERFORM MAJOR REFURBISHMENT FOR CTU-5 CC		
Status	REL			
Work center	IRQWC01 1165	BASRA Center		
Control key	PM01	Confirmation number	1117618	
Operation key		Milestone		
Funct. Location				
Equipment				
Responsible				
Work	72 H	Activity Type		
Duration	18 H	Number	4	
Earliest start date	Sep 28, 2025	Start time	08:00:00	
Latest end date	Sep 30, 2025	End time	12:34:17	
Actual Labor	0 H	Total float	0 H	

Material	1100000096398			
	Wika pressure gauge 1000psi			
Quantity	1 EA			
Purchase requisition		Status	REL	
Reservation number	258489	Plant / storage location	1165 / 2702	
Unloading Point		Goods recipient		

Material	HYDRAULIC HOSE 1/2" X 12'			
Quantity	4 EA			
Purchase requisition		Status	REL	
Reservation number	258489	Plant / storage location	1165 /	
Unloading Point		Goods recipient		

Material**HYDRAULIC HOSE 3/8" X 10'**

Quantity

4 EA

Purchase requisition

Reservation number

Unloading Point

258489

Status

Plant / storage location

Goods recipient

REL

1165 /

Material**HYDRAULIC HOSE 1/4" X 12'**

Quantity

6 EA

Purchase requisition

Reservation number

Unloading Point

258489

Status

Plant / storage location

Goods recipient

REL

1165 /

Material**SIDE WINDSHIELD**

Quantity

1 EA

Purchase requisition

Reservation number

Unloading Point

258489

Status

Plant / storage location

Goods recipient

REL

1165 /

Material**ELECTRIC CONTROL CABLE 8X1.5mm2**

Quantity

1 ROL

Purchase requisition

Reservation number

Unloading Point

258489

Status

Plant / storage location

Goods recipient

REL

1165 /

Material**PRESSURE GAUGE 5000PSI**

Quantity

2 EA

Purchase requisition

Reservation number

Unloading Point

258489

Status

Plant / storage location

Goods recipient

REL

1165 /

Material**PRESSURE GAUGE 3000PSI**

Quantity

4 EA

Purchase requisition

Reservation number

Unloading Point

258489

Status

Plant / storage location

Goods recipient

REL

1165 /

Time Ticket

Confirmation number 1117618



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0020	REPLACE THE BAD CONDITION HOSES
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241342
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	24 H	Activity Type
Duration	8 H	Number 3
Earliest start date	Sep 30, 2025	Start time 12:34:17
Latest end date	Oct 1, 2025	End time 13:42:51
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241342



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0030		REPLACE THE PRESSURE GAUGES
Status	REL		
Work center	IRQWC01	1165	BASRA Center
Control key	PM01		Confirmation number 1241343
Operation key			Milestone
Funct. Location			
Equipment			
Responsible			
Work	12	H	Activity Type
Duration	4	H	Number 3
Earliest start date	Oct 1, 2025		Start time 13:42:51
Latest end date	Oct 2, 2025		End time 10:17:08
Actual Labor	0	H	Total float 0 H

Time Ticket

Confirmation number 1241343



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0040	REPLACE THE ELECTRIC CONTROL CABLE
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241344
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	80 H	Activity Type
Duration	40 H	Number 2
Earliest start date	Oct 2, 2025	Start time 10:17:08
Latest end date	Oct 9, 2025	End time 15:59:59
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241344



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0050	FIX/REPAIR THE ELECTRICAL SYSTEM
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241345
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	72 H	Activity Type
Duration	36 H	Number 2
Earliest start date	Oct 9, 2025	Start time 15:59:59
Latest end date	Oct 19, 2025	End time 09:08:33
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241345



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0060	REPLACE THE WINDSHIELD
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241346
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	12 H	Activity Type
Duration	6 H	Number 2
Earliest start date	Oct 19, 2025	Start time 09:08:33
Latest end date	Oct 19, 2025	End time 15:59:59
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241346



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0070		RECONDITION THE SEAT AND FLOOR OF THE CC
Status	REL		
Work center	IRQWC01	1165	BASRA Center
Control key	PM01		Confirmation number 1241347
Operation key			Milestone
Funct. Location			
Equipment			
Responsible			
Work	72	H	Activity Type
Duration	24	H	Number 3
Earliest start date	Oct 19, 2025		Start time 15:59:59
Latest end date	Oct 23, 2025		End time 11:25:42
Actual Labor	0	H	Total float 0 H

Time Ticket

Confirmation number 1241347



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Object list for order : 500090251**PERFORM MAJOR REFURBISHMENT FOR CTU-5 CC**

Sort field

Processing status

Funct. location NSR-IRQ-NPE-BAS-C

Coiled Tubing Cabin

Equipment 70002601

CONTROL CABINE (CT-5)

Assembly

Serial number

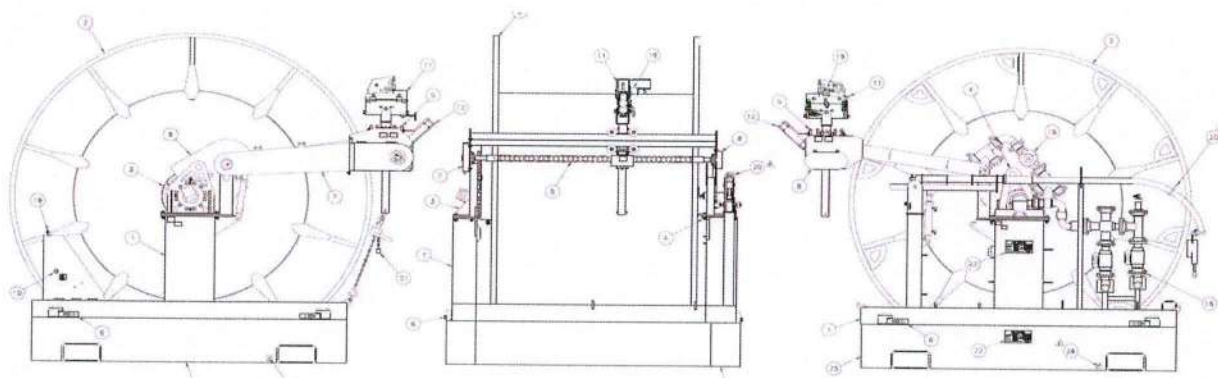
Material

Notification 700236816

PERFORM MAJOR REFURBISHMENT FOR CTU-5 CC

End of report

HYDRA RIG TUBING REEL PREVENTATIVE MAINTENANCE CHECKLIST



SCHEDULE PERIOD D - EVERY 5 YEARS

AFFECTS THE FOLLOWING UNITS:

Assy#

Order#

Equipment #	Tubing Reel Assembly	Current Schedule Period
CT-5	70002602	D
Maintenance Order #	Date (dd/mm/yyyy)	Location
500090253	04/October/2025	ATS Workshop
Where was PM Performed:		INITIALS = OK F = Fail N/A = not applicable
Vendor: Aberdeen Technical Services		1 = Component(s) not installed on unit being inspected
Shop: ATS Workshop		2 = Task not applicable to the design of unit being inspected
Field:		
Mechanic signature: Mahmoud Abd-El-Sattar		Employee ID # (if applicable)
		Date: 04/Oct/2025
Schedule Periods: A= Every 90 Days, B= Every 360 Days, C= Every 720 Days, D= Every 5 Years		
Before beginning this task contact Hydra Rig Aftermarket Service/Technical Support Team to verify if any product bulletins and/or updates should be applied to the reel.		
Task	RECORD AND REPORT ANY ISSUES OR DAMAGE TO SUPERVISOR	Hours
UNIT		CH
1	Clean and allow to dry.	OK
2	Visually check entire unit for damage.	OK
3	Check condition of reel restraining chains.	OK
4	Check condition of tubing retaining clamp.	OK
5	Verify all bolts are properly torqued. Pay special attention to gearbox, stub shaft and bearing bolts.	OK
6	Grease all lube points	OK
Tubing Reel Drivetrain		CH
7	Check for and repair hydraulic leaks.	OK
8	Check all hoses for leaks, chafing, and damage.	OK
9	Replace all hydraulic hoses.	OK
10	Check all hoses are routed correctly and tied securely.	OK
11	Check hose connections at bulk head for leakage or damage.	OK
12	Ensure hose connection ID plate at bulkhead is clearly legible.	OK
13	Check all Quick Disconnect couplings for leaks and damage. Replace if required.	OK
14	Replace all Quick Disconnect couplings.	OK
15	Check Oil level in motor gearbox. ** Consult NOV for specific fill and level check procedure **	OK
16	Have gearbox evaluated by vendor, rebuild/replace as necessary.	OK
17	Have drive motor evaluated by vendor, rebuild/replace as necessary.	OK
FRAME		CH
18	Clean and allow to dry	OK
19	Shot blast frame and base in preparation for repainting.	
20	Visually inspect welds for cracks.	OK
21	Perform MPI of lifting eyes and welds on tubing reel	OK
22	Perform MPI of lifting eyes and welds on tubing reel frame	OK
23	Check condition of shackles and fixing cotter pins.	OK
24	Carry out post repair MPI of any welds in the lifting path(s)	OK
25	Verify drain plugs are in drip pan & drip pan is clean and dry.	OK
26	Verify condition of forklift pockets and are clean.	OK
27	Verify any auxiliary mounting points are in good condition.	OK
SPOOL		CH
28	Inspect spool for damage. Special attention to be given to support spokes. Check for cracking and corrosion where welded to core. MPI welds if spool is empty.	OK
29	Check the spokes for tapering out due to poor spooling and/or pipe load.	OK
PLUMBING		CH
30	Verify internal and external plug valves are operable.	OK
31	Grease all valves and 1502 connections.	OK
32	Pressure test valves and plumbing at 250 psi and hold for 15 minutes. Verify no leaks.	OK
33	Pressure test valves and plumbing at max reel working pressure and hold for 15 minutes. Verify no leaks.	OK

LEVELWIND		CH	
34	Lubricate the levelwind lead screw and main levelwind beam with general purpose lithium based grease.	OK	
35	Remove, inspect and lubricate the levelwind pawl. Replace if required.	OK	
36	Inspect levelwind override motor, rebuild or replace if required.	OK	
37	Inspect levelwind cylinder, rebuild or replace if required.	OK	
38	Inspect levelwind cylinder load holding valves, rebuild or replace if required.		
39	Inspect levelwind override clutch, rebuild or replace if required.		
40	Adjust levelwind override clutch.		
41	Replace and lubricate all chains.	OK	
42	Check and adjust all chain tensioners.	OK	
43	Repalce and grease all bearings.	OK	
44	Inspect the levelwind cam followers, rebuild or replace if required.		
45	Inspect levelwind beam for wear, cracks, and corrosion.		
46	Verify all bolts are properly torqued.	OK	
COUNTER		CH	
47	Check drive chains for wear. Replace any worn or stiff chains.	OK	
48	Check condition of sprockets Replace as required.	OK	
49	Check condition of shaft bearings Replace as required.	OK	
50	Check all bushings for excessive wear.	OK	
51	Check springs fitted and tensioned. Springs tension to result in a force of 30-60 lbf between tubing and counter.	OK	
52	Record Vernier serial number and Calibration date.	OK	
53	Using vernier calliper check diameter of measuring wheel. Record metric or imperial and dimension. Replace if worn 0.002" or more on overall diamter.	OK	
54	Check mechanical counter function and lubricate.	OK	
55	Check mechanical counter drive coupling and ensure correct alignment.	OK	
56	Coat all exposed threaded bolts and rods with anti-sieze.	OK	
57	Lubricate all hinge pins with spray lubricant.	OK	
58	Lubricate chain drive with chain grease.	OK	
59	Function counter assembly by rotating measuring wheel. Check for excessive resistance.	OK	
60	Function test counter by trial fit to reel assembly. Check alignment.	OK	
PROCESS SWIVEL & IDLER ASSEMBLY		CH	
60	Inspect coiled tubing Reel Swivel for external damage and corrosion especially around sealing faces.	OK	
61	Strip Coiled Tubing Reel Swivel and inspect all components.	OK	
62	Consideration should be given to replacing the Complete CT reel swivel, it may be more cost effective to	OK	
63	Inspect Coiled Tubing Reel Swivel shaft mandrel internally for fatigue induced surface cracks	OK	
64	Inspect Coiled Tubing Reel Swivel body internally for fatigue induced surface cracks	OK	
65	Replace CT Reel Swivel shaft-Mandrel.		
66	Replace CT Reel Swivel bearings.		
67	Replace CT Reel Swivel packing.		
68	Replace bearing(s) on idler/swivel side of tubing reel assembly.		
69	Grease bearing(s) and swivel on iron side of tubing reel assembly.		
70	Inspect to ensure that the manifold connected to the swivel is properly supported and not inducing side loads into the swivel. The manifold shall be self-supporting from the reel base frame. The connection with the swivel housing shall have some compliance to allow for eccentricity of the swivel.		
71	Dynamic loads associated with transportation have been known to cause the manifold support-bracket to relax, thus reducing their effectiveness. Inspect the brackets for indications of movement, correct if necessary. Inspect for and avoid any other possible causes of side loading.	OK	

FUNCTION TEST		CH	
Function test tubing reel brake, ensure it holds specified drive pressure across reel motor.		OK	
Ensure levelwind arm raises and lowers correctly, with full range of travel.		OK	
Ensure levelwind sheave transverses smoothly left and right, with all cam followers rotating properly.		OK	
		Total Hours	

LIST ALL DEFECTS FOUND DURING THE PM INSPECTION, INCLUDE AN APPROPRIATE EXPLANATION.

Note: An comment line will be required for each defect/repair.

1. - Torque limiter has been replaced with brand new

2. - Hydraulic hoses have been inspected and the bad ones replaced

3. - The level wind cylinders have been redressed

4. The motor and gear box have been inspected and redressed

5. The main bearings have been inspected and found satisfactory

6. The level wind motor, lead screw and Trolley have been inspected and found satisfactory

7.

8.

9.

10.

11.

12.

Order	500090253	Order Type	PMWO	preventive maintenance
Description	PERFORM MAJOR REFURBISHMENT FOR CTU-5 WR			
Start date	Sep 28, 2025	End date	Oct 5, 2025	
Priority				
Status	REL MANC SETC			
Funct. location	NSR-IRQ-NPE-BAS-CTS-CTR		Coiled Tubing Reel	
Equipment	70002602		TUBING REEL (CT-5)	
Assembly				
Location	BASRA		Room	
PM planner grp	BAS	BASRA Planner	PM plant	PM65
Main work center	IRQWC01 1165	BASRA Center		
Maintenance plan	Maint. plan item			
Revision number				

Operation	0010	PERFORM MAJOR REFURBISHMENT FOR CTU-5 TR
Status	REL	
Work center	IRQWC01 1165	BASRA Center
Control key	PM01	Confirmation number 1117620
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	24 H	Activity Type
Duration	8 H	Number 3
Earliest start date	Sep 28, 2025	Start time 08:00:00
Latest end date	Sep 29, 2025	End time 09:08:34
Actual Labor	0 H	Total float 0 H

Material

	HYDRAULIC HOSE 1" X 10'		
Quantity	2 EA		
Purchase requisition		Status	REL
Reservation number	258492	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material

	HYDRAULIC HOSE 3/8" X 10'		
Quantity	2 EA		
Purchase requisition		Status	REL
Reservation number	258492	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material

	TORQUE LIMITTER		
Quantity	1 EA		
Purchase requisition		Status	REL
Reservation number	258492	Plant / storage location	1165 /
Unloading Point		Goods recipient	

Material

Quantity

Purchase requisition

Reservation number

Unloading Point

1 EA

258492

PRESSURE GAUGE 1000 PSI

Status

Plant / storage location

Goods recipient

REL

1165 /

Material

Quantity

Purchase requisition

Reservation number

Unloading Point

1 EA

258492

BRAKE REPAIR KIT

Status

Plant / storage location

Goods recipient

REL

1165 /

Time Ticket

Confirmation number

1117620



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number

Time Required

Signature

Operation

Status

Work center

Control key

Operation key

Funct. Location

Equipment

Responsible

Work

Duration

Earliest start date

Latest end date

Actual Labor

0020

REL

IRQWC01

PM01

24 H

8 H

Sep 29, 2025

Sep 30, 2025

0 H

REPLACE THE BAD CONDITION HOSES

1165

BASRA Center

Confirmation number

Milestone

Activity Type

Number

Start time

End time

Total float

1241335

3

09:08:34

10:17:08

0 H

Time Ticket

Confirmation number 1241335



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0030		REPLACE THE TORQUE LIMITTER
Status	REL		
Work center	IRQWC01	1165	BASRA Center
Control key	PM01		Confirmation number 1241336
Operation key			Milestone
Funct. Location			
Equipment			
Responsible			
Work	2	H	Activity Type
Duration	2	H	Number 1
Earliest start date	Sep 30, 2025		Start time 10:17:08
Latest end date	Sep 30, 2025		End time 12:34:17
Actual Labor	0	H	Total float 0 H

Time Ticket

Confirmation number 1241336



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0040	REDRESS THE REEL MOTOR
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241337
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	12 H	Activity Type
Duration	6 H	Number 2
Earliest start date	Sep 30, 2025	Start time 12:34:17
Latest end date	Oct 1, 2025	End time 11:25:43
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241337



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0050	REDRESS REEL BRAKE
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241338
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	12 H	Activity Type
Duration	6 H	Number 2
Earliest start date	Oct 1, 2025	Start time 11:25:43
Latest end date	Oct 2, 2025	End time 10:17:09
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241338



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0060	REDRESS THE HYDRAULIC CYLINDERS
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241339
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	12 H	Activity Type
Duration	4 H	Number 3
Earliest start date	Oct 2, 2025	Start time 10:17:09
Latest end date	Oct 2, 2025	End time 14:51:26
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241339



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0070	REDRESS THE GEARBOX
Status	REL	
Work center	IRQWC01	1165 BASRA Center
Control key	PM01	Confirmation number 1241340
Operation key		Milestone
Funct. Location		
Equipment		
Responsible		
Work	12 H	Activity Type
Duration	4 H	Number 3
Earliest start date	Oct 2, 2025	Start time 14:51:26
Latest end date	Oct 5, 2025	End time 11:25:43
Actual Labor	0 H	Total float 0 H

Time Ticket

Confirmation number 1241340



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Operation	0080		REPLACE THE PRESSURE GAUGE
Status	REL		
Work center	IRQWC01	1165	BASRA Center
Control key	PM01		Confirmation number 1241341
Operation key			Milestone
Funct. Location			
Equipment			
Responsible			
Work	1	H	Activity Type
Duration	1	H	Number 1
Earliest start date	Oct 5, 2025		Start time 11:25:43
Latest end date	Oct 5, 2025		End time 12:34:17
Actual Labor	0	H	Total float 0 H

Time Ticket

Confirmation number 1241341



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	Comment: _____								

Personnel Number _____

Time Required _____

Signature _____

Object list for order : 500090253**PERFORM MAJOR REFURBISHMENT FOR CTU-5 WR**

Sort field

Processing status

Funct. location NSR-IRQ-NPE-BAS-C

Coiled Tubing Reel

Equipment 70002602

TUBING REEL (CT-5)

Assembly

Serial number

Material

Notification 700236818

PERFORM MAJOR REFURBISHMENT FOR CTU-5 WR

End of report

MATERIAL REQUEST & ISSUANCE FORM

Date: 19 Dec 2025

Serial no. 015511

[illegible]

QAF-6022 Rev.3

White Copy: To Store
Pink Copy: To requester signed by store
Yellow Copy: Stay in book

MATERIAL REQUEST & ISSUANCE FORM

Date: 16 Dec 2025

Meijer Refurbishment

Serial no. 015510

For CTV-6 Head/Track (Power Pack)

[illegible]

Requester (Name & Signature)

Mohamed Rechi

Approver (Name & Signature)

Mohammed Raheem
2013/11/11

Issuer (Name & Signature)

Warehouse Basra

Issued Materials

Operations manager

White Copy: To Store

QAF-6022 Rev.3

Pink Copy: To requester signed by store

Yellow Copy: Stay in book

MATERIAL REQUEST & ISSUANCE FORM

Date: _____

16 Dec 2025 for C-16 Air Max

Serial no. 015509

[illegible]

QAF6022 Rev.3

White Copy: To Store
Pink Copy: To requester signed by store
Yellow Copy: Stay in book



Date: _____

16 Dec 2025 For CT-6 Major Repair
Serial no. 015507

MATERIAL REQUEST & ISSUANCE FORM

[illegible]

AF6022 Rev.3

Write Copy: To Store
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MATERIAL REQUEST & ISSUANCE FORM

Date: _____

Doc # 2025 For CT-C.P.P. Traction

Serial no. 015504

[illegible]

QAF6022 Rev.3

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MATERIAL REQUEST & ISSUANCE FORM

Date: _____

5 Oct 2025 For CT-5 IH + CC

Serial no. 015503

Please issue the following items:

IQEN no./Part no.	Description	Qty. Requested	Qty. Issued	Change to	Remarks	W/O number	Filled in maintenance PRO
96400	Pressure Gauge 3000 PSI	3	3		IH	500090250	
96402	Pressure Gauge 10K PSI	1	1		IH		
96399	Pressure Gauge 1500 PSI	1	1		IH		
96398	Pressure Gauge 1000 PSI	1	1		CC		
Requester (Name & Signature)		Approver (Name & Signature)		Issuer (Name & Signature)		Operations manager	
Mohammed Rabi		Ali Jafar MSU		Warehouse Basra			

Warehouse Basra
Issued Materials

MATERIAL REQUEST & ISSUANCE FORM

Date: 28 Sept 2025 Serial no. **015502**

Please issue the following items:

IQEN no./Part no.	Description	Qty. Requested	Qty. Issued	Change to	Remarks	W/O number	Filled in maintenance PRO
1110643	Kil Seal Traction	6	6 Ea			500090250	4
Requester (Name & Signature) <i>Mohammed Rodi</i>		Approver (Name & Signature) <i>Alifack MSU.</i>		Issuer (Name & Signature) <i>CH...</i>		Operations manager	

28 Sept 2025

MATERIAL REQUEST & ISSUANCE FORM

Date: 28 Sep 2025

Serial no. **015373**

Please issue the following items:

IQEN no./Part no.	Description	Qty. Requested	Qty. Issued	Change to	Remarks	W/O number	Filled in maintenance PRO
110643	kin Seal Traction (11-5-110643)	6	6	ea		500090250000	
Requester (Name & Signature) <i>Mohamed Rabi</i>		Approver (Name & Signature) <i>Ali Jalloussi</i> <i>28 Sep 2025</i>		Issuer (Name & Signature) <i>[Signature]</i>		Operations manager	

Date: _____

CT-6 Head Truck $\rightarrow$ $\rightarrow$

Serial no. 015501

[illegible]

White Copy: To Store
Pink Copy: To requester signed by store
Yellow Copy: Stay in book