



P.O. Box 18088, Jebel Ali Dubai,
United Arab Emirates
Tel: 971-4-8861155 Fax: 971-4-8861144

Completion Report

7838 – BRAKE OVERHAUL REPORT

Customer	International Rig & Equipment	Job No	W-24154
Date Received	22.03.2024	Purchase Order No	TS/612/798 REV-1
Quotation No	DWQ 30013	Start Date	13.05.2024
IRE stock number	0414-0-001	Completion Date	02.07.2024

Brake Nameplate Data			
Serial No	RHZ 11052W	Model	Baylor 7838 W
Assembly No	R/B 31591	Input Amps	74
Maximum RPM	600	Input Volts	250 VDC
Coolant	Water	Flow Rate	150

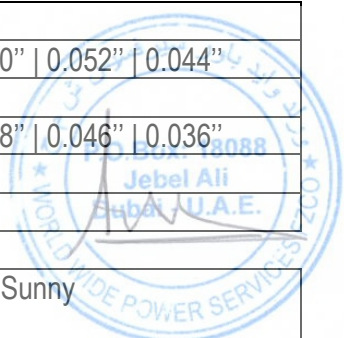
Major Components Serial Numbers			
	Magnets	Inner Coil	Outer Coil
I/B	RHZ 7585W	IB 5677 PB	OB 5682 PB
O/B	RHZ 7584W	IB 5676 PB	OB 5678 PB
Visible Condition When Received			

Misc. Components Installed on Brake						
DW Cradle	Ship Skid	Hub	Sleeve	Shifter	Keeper	Power Plug
X	√	√	X	X	X	X

Warning

If brake air gap inspection plug cannot be removed with normal tools, notify supervisor prior to using torch to heat plugs for removal. Assure that no foreign or flammable substances are present inside brake or magnet coils cavities. If foreign substances are found notify supervisor before proceeding

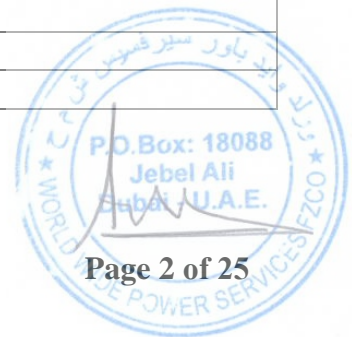
Brake Air-Gap Measurements x 0.000 Inches												
I/B	A	0.038"	0.038"	0.044"	B	0.050"	0.040"	0.034"	C	0.040"	0.052"	0.044"
I/B @ 90 Deg	A				B				C			
O/B	A	0.052"	0.030"	0.048"	B	0.016"	0.034"	0.040"	C	0.048"	0.046"	0.036"
O/B @ 90 Deg	A				B				C			
					Date:							



Data Taken By:	Sunny	Date: 25.03.2024	Sign: Sunny
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ELECTRICAL AND MECHANICAL TEST CHECK LIST				JOB #		W-24154	
S#	Test Description	YES (√)	No (x)	Remarks			
Electrical							
1	Resistance test	YES (√)					
2	Insulation Resistance test	YES (√)					
3	Polarization index test (PI)		No (x)				
4	Surge test		No (x)				
5	Hi Pot test		No (x)				
6	Partial discharge test	YES (√)					
7	Tan delta test		No (x)				
8	Core test		No (x)				
9	Growler test		No (x)				
10	Pole test		No (x)				
11	Impedence test		No (x)				
12	Drop Test		No (x)				
13	Wedge Map test		No (x)				
14	Vibration test		No (x)				
15	Temperature test		No (x)				
16	Thermography test		No (x)				
17	No Load Run-test		No (x)				
Mechanical Test							
18	MPI Test						
	Shaft	Hub	Pinion	Pulley	Sprocket	Coupling	
	YES (√)	No (x)	(x)	No (x)	No (x)	No (x)	
	Stator feet	Stator frame	End shields	Blower Fan	Lifting point		
No (x)	No (x)	No (x)	No (x)	No (x)			
19	LPE Test						
	SS and Aluminum Casing				Blower Motor		
	No (x)				No (x)		
20	Rotor Runout Check			No (x)			
21	Rotor Mechanical Dimension		YES (√)				
22	Housing Dimensions		YES (√)				
23	Flame path dimensions			No (x)			
24	Rotor Balancing			No (x)			
25	Initial End float / Radial Checks			No (x)	No (x)		
26	Final End float / Radial Checks			No (x)	No (x)		
27	Blue Match						
	Hub			Pinion			
	No (x)			No (x)			
28	Other tests (If Any)			No (x)			





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7838 – Condition Of Major Components

Housing	P/N 44817	Use As Is	Repair	Replace
Bottom		√		
Water Boxes		√		
Outlet Poenix Flg		√		
Lifting Eyes		√		
Notes				

Junction Box	P/N 46767	Use As Is	Repair	Replace
Type	New Style	√ Old Style		
Condition				

End Rings	P/N 07352	Use As Is	Repair	Replace
Locating Diameter Condition		√		
H2O Passage Machined		Yes	No	
Inspection Hole Locations		12 / 4 / 8	2 / 6 / 10	
Notes				

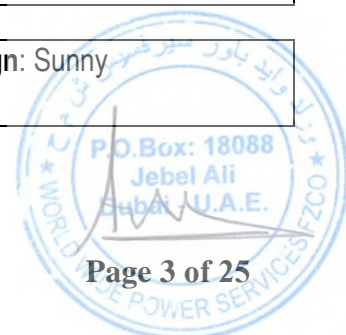
Rotor Drum	P/N 07734	Use As Is	Repair	Replace
I/B Diameter	(Min 72.000 - Max 72.210)	√		
O/B Diameter	(Min 72.000 - Max 72.210)			
Wings Chamf.	Yes / No	Shaft Keyway	Yes / No	
General Condition				

Shaft	P/N 07594	Use As Is	Repair	Replace
I/B Bearing Dia.	(8.6622-8.6630)	√		
O/B Bearing Dia.	(7.0873-7.0880)			
Keyway width	(1.497-1.502)			
Taper Condition			Hand Dress	Regrind
Condition				

I/B Bearing Hub	P/N 07349	Use As Is	Repair	Replace
I/B Bearing Dia.	(13.3863-13.3876)	√		
Condition				

O/B Bearing Hub	P/N 07353	Use As Is	Repair	Replace
O/B Bearing Dia.	(11.0241-11.0256)	√		
Condition				
Grease used on assembly				

Data Taken By: Sunny	Date: 26.03.2024	Sign: Sunny
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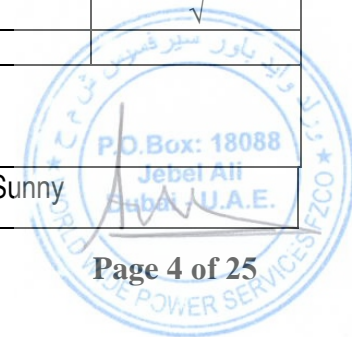
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7838 - Condition Of Major Components				
I/B Bearing Cap	P/N 07360	Use As Is	Repair	Replace
		√		
Condition				
O/B Bearing Cap	P/N 07359	Use As Is	Repair	Replace
		√		
Condition				
I/B Seal Retainer	P/N 07361	Use As Is	Repair	Replace
		√		
Condition				
O/B Seal Retainer	P/N 07362	Use As Is	Repair	Replace
		√		
Condition				

7838 – Replacement Parts					
Qty	Part No	Description	Reuse	Repair	Replace
1	47848	I/B Magnet Assembly	√		
1	47848	O/B Magnet Assembly	√		
1	07734	Rotor Drum	Line Marks		
1	07594	Shaft	√		
1	44817	Housing	√		
2	07352	End Rings	√		
1	07349	I/B Hub	√		
1	07353	O/B Hub	√		
1	07360	I/B Bearing Cap	√		
1	07359	O/B Bearing Cap	√		
1	07361	I/B Seal Retainer	√		
1	07362	O/B Seal Retainer	√		
1	46767	Junction Box	√		
1	1030 20 0003	I/B Bearing			23044 EMW
1	1030 20 0004	O/B Bearing			23036 EMW
2	1555 10 0021	I/B Grease Seal			√
1	1555 10 0005	O/B Grease Seal			√
2	07626	I/b Seal Sleeve			√
1	07370	O/B Seal Sleeve			√
1	1420 20 0044	I/B Lock Nut	√		
1	1420 20 0036	O/B Lock Nut	√		
1	1690 20 0044	I/B Lock Washer	√		
1	1690 20 0036	O/B Lock Washer	√		
4	1075 10 0001	Coil Vent / Breather			√
4	06614	Breather Housing	√		

Bearings on Assembly
DE Bearing: 23044-BEA-XL C3 Fag Germany
NDE Bearing: 23036-E1A-XL-C3 Fag Germany

Data Taken By: Sunny	Date: 26.03.2024	Sign: Sunny
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7838 – Inboard Magnet Inspection Report			
Customer	International Rig & Equipment	Job No	W-24154
Date Received	22.03.2024		
Quotation No	DWQ 30013	Purchase Order No	

Magnet Serial Numbers		
Magnet	Inner Coil	Outer Coil
RHZ 7585W	IB 5677 PB	OB 5682 PB

Visible Condition When Received

Warning
Assure that no foreign or flammable substances are present inside brake or magnet coils cavities. If foreign substances are found notify supervisor before proceeding

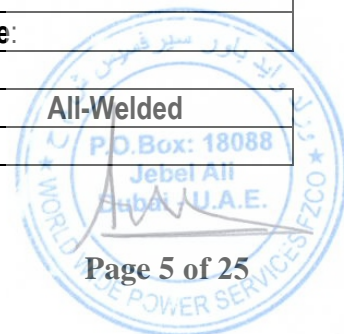
Magnet Coil Electrical Measurements 500 VDC			
Coil No	DC Resistance		Insulation Resistance
F5 – F6	(10.8±0.5)	14.1 Ohms	500 M-Ohms to grd.
F7 – F8	(10.8±0.5)	14.1 Ohms	500 M-Ohms to grd.
Measurements Take by:		Date	

IR @ 500 Volts between Coils –F₁F₂&F₃F₄ – MΩ
F₅F₆&F₇F₈– 500 MΩ

Magnet Hydro Test	@ 2.5 – 3.0 psi	Pass or Fail	IR
		PASS	
Tested By	Dinesh	Date: 27.03.2024	
Meter Identification No:	TE-31 IR 550 MΩ @ 500 vdc		

Magnet Critical Dimensions		
Outside Diameter	(Min 71.890 – Max 72.090)	
End Rig Step	(64.495 – 64.500)	
Center Plate Step	(53.518 – 53.520)	
Measurements Taken By:		Date:

Magnet Construction	Double Stainless	Single Stainless	All-Welded





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7838 – Outboard Magnet Inspection Report

Customer	International Rig & Equipment	Job No	W-24154
Date Received	22.03.2024		
Quotation No	DWQ 30013	Purchase Order No	

Magnet Serial Number		
Magnet	Inner Coil	Outer Coil
RHZ 7584W	IB 5676 PB	OB 5678 PB

Visible Condition When Received

Warning
Assure that no foreign or flammable substances are present inside brake or magnet coils cavities. If foreign substances are found notify supervisor before proceeding

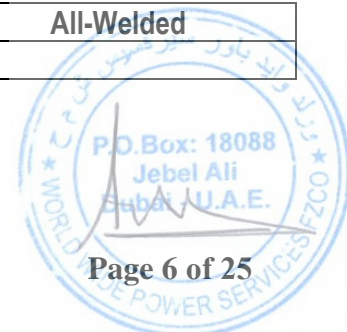
Magnet Coil Electrical Measurements 500 VDC			
Coil No	DC Resistance		Insulation Resistance – 500 VDC
F5 – F6	(10.8±0.5)	14.0 Ohms	500 M-Ohms to grd.
F7 – F8	(10.8±0.5)	14.1 Ohms	500 M-Ohms to grd.
Measurements Take by:		Date	

IR @ 500 Volts between Coils –F₁F₂&F₃F₄ – 500 MΩ
F₅F₆&F₇F₈– MΩ

Magnet Hydro Test	@ 2.5 – 3.0 psi	Pass or Fail	IR
		PASS	
Tested By	Dinesh	Date: 02.04.2024	
Meter Identification No:	TE-31 IR 550 MΩ @ 500 vdc		

Magnet Critical Dimensions		
Outside Diameter	(Min 71.890 – Max 72.090)	
End Rig Step	(64.495 – 64.500)	
Center Plate Step	(53.518 – 53.520)	
Measurements Taken By:		Date:

Magnet Construction	Double Stainless	Single Stainless	All-Welded



WORLD WIDE Power Services FZCO



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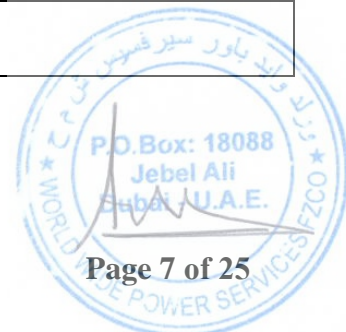
Inspection Report Summary		Job №	W-24154
Sr. №	Observations (After Dismantling)		
1	All parts are good.		
2	Both magnets hydro tested ok.		
3	Both the side bearing housings and shaft bearing journals are in tolerance.		
4	Both the side bearings need to be replaced.		
5	All 4 no's of Seals need to be changed.		
6	DE side drum ID has ovality, need to machine.		
7	Both the side seal sleeves are good.		
8	NDE Side Drum ID Surface has deep Groove marks.		
9	Customer Supplied brake HUB the condition of the HUB found Good, Report Attached.		

Sr. №	Future Checks Required	
1	Both the side magnets hydro testes at 500 VDC	
2	IB	OB
3	F ₅ F ₆ - 550 MΩ	F ₁ F ₂ - 550 MΩ
4	F ₇ F ₈ - 550 MΩ	F ₃ F ₄ - 550 MΩ

Sr. №	Conclusions to Cause if Failure
1	
2	
3	
4	
5	

Sr. №	Proposed Scope of Work
1	Clean all the parts.
2	MPI the rotor shaft.
3	Machine Rotor drum both the sides, Skim cut to remove ovality.
4	Weld and Machine both magnets to suit proper air gaps.
5	Replace both the bearings, seals, Breathers, Grease hose and fittings.
6	Recommend to replace DE Hub (HUB Supplied by the Customer)
7	Assemble, polarity and airgap test.
8	Record readings.
9	Paint and dispatch.

Inspected By: Kiran	Date: 02.04.2024	Sign: Kiran
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PICTURES

HUB WEAR AND TEAR MARKS



FRONT TEETH



7.33 mm

7.04 mm

BACK TEETH



8.52 mm

8.33 mm

NEW HUB



FRONT TEETH



9.42 mm

9.39 mm

BACK TEETH



9.29 mm

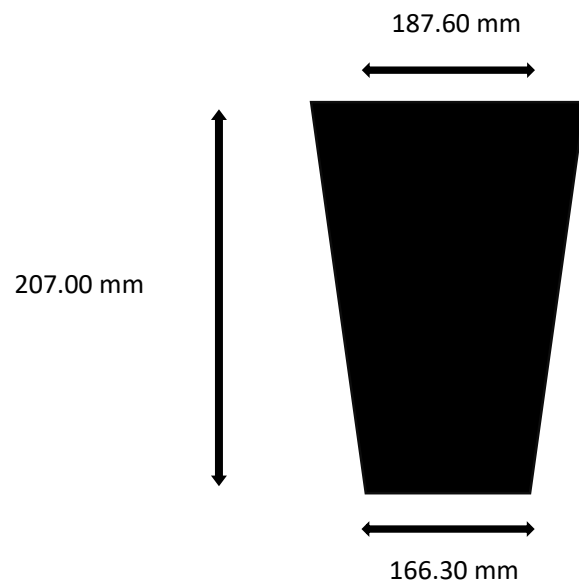
9.23 mm



Outer Diameter of HUB



Inside Taper Hub Bore Measurements



2 Keyway present in the Bore

Keyway - 1

Keyway Depth – 9.65 mm

Keyway Width – 38.40 mm

Keyway - 2

Keyway Depth – 19.90 mm

Keyway Width – 38.20 mm





WORLD WIDE
Power Services FZCO

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MAGNETIC PARTICLE INSPECTION REPORT

Client : International Rig & Equipment **WWPS Job No.** : W-24154
Date of Test : 09.05.2024 **Date of Report** : 09.05.2024
Material Spec. : Carbon Steel **PO No.** : TS/612/798 REV-1

Magnetic Particle Inspection Technique/ System			
Visible <input checked="" type="checkbox"/>	Fluorescent <input type="checkbox"/>	Yoke Model / Serial No. Y-2/E3921 Calibration Due Date: 04.02.2025	Magnetic Particle Wet <input checked="" type="checkbox"/> Dry <input type="checkbox"/>

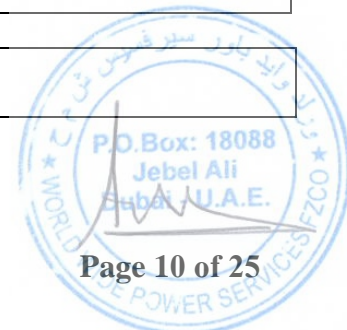
Consumable	Manufacturer	Brand Name	Batch No.	Expiration Date
White Contrast	Magnaflux	WCP-2	230505	May – 2026
Black ink	Magnaflux	7HF	230806	Aug – 2026

No.	Item Description	Heat / Lot No.	Quantity
1	HUB		1

Procedure Reference : QP-WS-07
 Material Condition : Dismantle
 Surface Condition : Machined
 Lighting Source & Intensity : Daylight above 1076 Lux
 Material temperature : 34°C
 Particle Application : By spray
 Acceptance Criteria : Section II of QP-WS-07, Issue 3, Rev. 1
 Post-Cleaning : Using thinner
 Demagnetization : N/A
 Observation : No relevant indication was observed during the test
 Examination Result : As below
 Accepted Defect Noticed Recommend to attached sketch

	Test Conducted by	Client
Technician	Denno	International Rig & Equipment
Level	II	
Reviewed By	Kiran	
Date	09.05.2024	

Additional Information:



WORLD WIDE Power Services FZCO



MPI IMAGES





PICTURES

Brake HUB Supplied by the Customer



MPI TEST





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MAGNETIC PARTICLE INSPECTION REPORT

Client : International Rig & Equipment **WWPS Job No.** : W-24154
Date of Test : 31.05.2024 **Date of Report** : 31.05.2024
Material Spec. : Carbon Steel **PO No.** : TS/612/798 REV-1

Magnetic Particle Inspection Technique/ System			
Visible <input checked="" type="checkbox"/>	Fluorescent <input type="checkbox"/>	Yoke Model / Serial No. Y-2/E3921 Calibration Due Date: 04.02.2025	Magnetic Particle Wet <input checked="" type="checkbox"/> Dry <input type="checkbox"/>

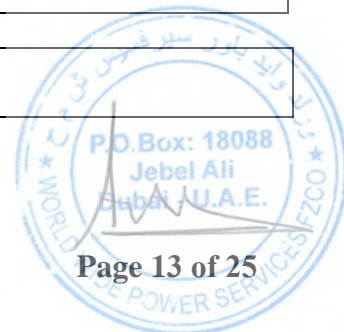
Consumable	Manufacturer	Brand Name	Batch No.	Expiration Date
White Contrast	Magnaflux	WCP-2	230505	May – 2026
Black ink	Magnaflux	7HF	230806	Aug – 2026

No.	Item Description	Heat / Lot No.	Quantity
1	Brake HUB (Supplied by the Customer)		1

Procedure Reference : QP-WS-07
 Material Condition : Dismantle
 Surface Condition : Machined
 Lighting Source & Intensity : Daylight above 1076 Lux
 Material temperature : 32°C
 Particle Application : By spray
 Acceptance Criteria : Section II of QP-WS-07, Issue 3, Rev. 1
 Post-Cleaning : Using thinner
 Demagnetization : N/A
 Observation : No relevant indication was observed during the test
 Examination Result : As below
 Accepted Defect Noticed Recommend to attached sketch

	Test Conducted by	Client
Technician	Denno	International Rig & Equipment
Level	II	
Reviewed By	Kiran	
Date	31.05.2024	

Additional Information:

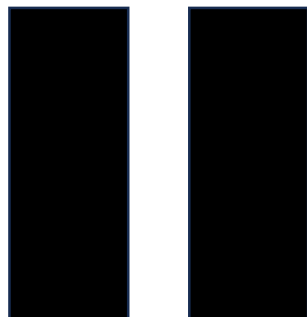


PICTURES

HUB Supplied By The Customer

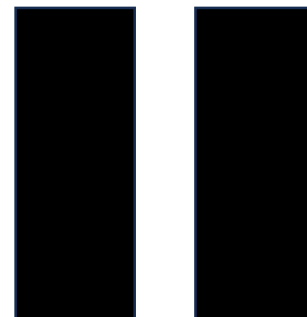


FRONT TEETH



9.11 mm 9.11 mm

BACK TEETH



9.06 mm 9.06 mm

Inside Taper Shaft Diameter



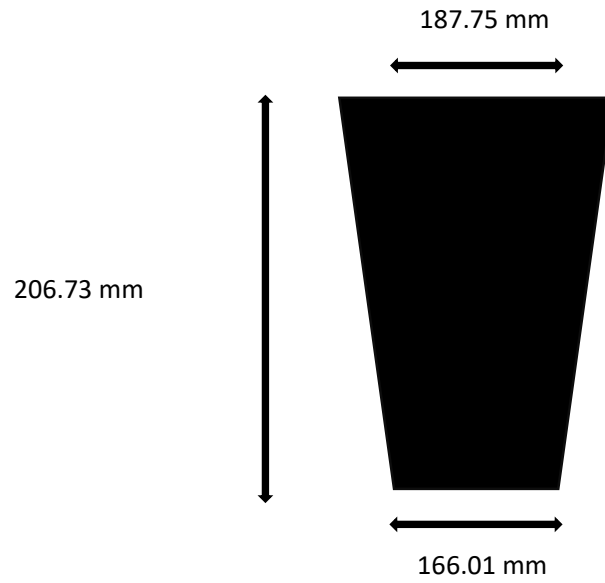
455.80 mm



53 TEETH



Inside Taper Hub Bore Measurements



2 Keyway present in the bore

Keyway - 1

Keyway Depth – 20.04 mm

Keyway Width – 37.98 mm

Keyway - 2

Keyway Depth – 8.95 mm

Keyway Width – 38.15 mm





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Mechanical Check Sheet

7838 - Initial Inspection

W-24154		Drive End		Non-Drive End	
		Bearing No.	23044	23036	
		Outer Diameter	340.00 mm	280.00 mm	
		Inner Diameter	220.00 mm	180.00 mm	
		Width	90.00 mm	74.00 mm	
		Bearing Condition			
	Bearing Housing	1	340.035 mm	280.035 mm	
		2	340.03 mm	280.03 mm	
		3	340.025 mm	280.025 mm	
		4	340.035 mm	280.03 mm	
	Comments		Both the bearing housings are in tolerance		
	Shaft Journal	1	220.05 mm	180.03 mm	
		2	220.05 mm	180.03 mm	
		3	220.05 mm	180.03 mm	
		4	220.05 mm	180.03 mm	
	Comments		Both the shaft bearing journals are in tolerance		
Shaft Condition: Good			Keyway Condition: Good		

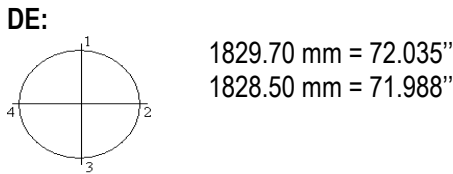
Size After Repair					
		Drive End		Non-Drive End	
		Bearing No.			
		Outer Diameter	- mm	- mm	
		Inner Diameter	- mm	- mm	
		Width	- mm	- mm	
	Bearing Housing	1	- mm	- mm	
		2	- mm	- mm	
		3	- mm	- mm	
		4	- mm	- mm	
	Comments				
	Shaft Journal	1	- mm	- mm	
		2	- mm	- mm	
		3	- mm	- mm	
		4	- mm	- mm	
	Comments				
Shaft Condition			Keyway Condition		
Engineer:	Sajeewan	Date:	01.04.2024	Supervisor Sign: Sajeewan	
Instrument No:	M8- M13				



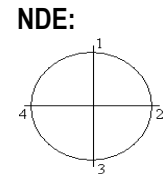


Customer	International Rig & Equipment	Model	7838	Job No	W-24154
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After Dismantling

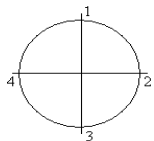


DRUM
1-3: 1829.75 mm = 72.037"
2-4: 1828.95 mm = 72.005"



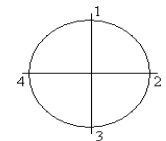
1825.90 mm = 71.885"
1825.80 mm = 71.881"

COIL
1-3: 1826.40 mm = 71.905"
2-4: 1826.40 mm = 71.905"



DRUM WIDTH

35.80 mm = 1.370"
34.60 mm = 1.362"



Air Gap: DE: 34.80 mm = 1.370"
Clearance: DE:

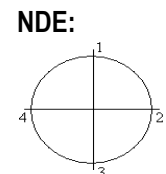
Air Gap: NDE:
Clearance: NDE:

Technician: Sajeevan	Approved: Kiran	Date: 01.04.2024
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Final Measurement

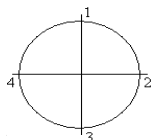


DRUM
1-3: 1829.90 mm = 72.043"
2-4: 1829.82 mm = 72.040"

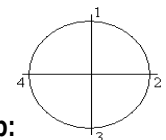


1826.75 mm = 71.91"

COIL
1-3: 1826.86 mm = 71.92"
2-4:



DRUM WIDTH 34.30 mm = 1.350"
34.00 mm = 1.354"



Clearance: DE:

Air Gap:
Clearance: NDE:

Technician: Sajeevan	Approved: Kiran	Date: 26.05.2024
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7838 – Brake Final Report

Customer	International Rig Equipment	Job Number	W-24154
LPO Number		Serial #	RHZ 11052W

AIR GAP (Before Paint coat)

	Left	Centre	Right
Inboard Side	0.059"	0.060"	0.059"
Outboard Side	0.059"	0.060"	0.059"

Electrical Checks

	Resistance		Insulation	
F1-F2	14.1	Ω	550	Ω at 500 Volts
F3-F4	14.2	Ω	550	Ω at 500 Volts
F5-F6	14.1	Ω	550	Ω at 500 Volts
F7-F8	14.1	Ω	550	Ω at 500 Volts

Terminal Box

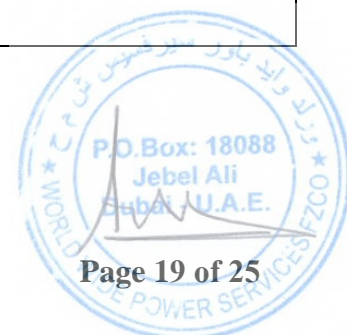
	1	2	3	4	5	6	7	8
Wire#	F ₅ +F ₈	F ₁ +F ₄	F ₂ -	F ₃ -	F ₆ -	F ₇ -		

Cooling System Information

Closed Loop		Open Loop	
Flow Rate GPM		Started	Measured
BTU/Hr.		Pump Size	X with Impellors
Custom			commercial

IR @ 500 Volts between Coils – F₁F₂&F₃F₄ :
F₅F₆&F₇F₈ :

Approved: Kiran	Date: 25.06.2024	Signature: Dinesh
Instrument No:	-	
Meter Identification No:	TE-30, 31	



WORLD WIDE Power Services FZCO



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7838 – Brake Final Report

Customer	International Rig Equipment	Job Number	W-24154
LPO Number		Serial #	RHZ 11052W

AIR GAP (After Paint coat)

	Left	Centre	Right
Inboard Side 0°	0.042"	0.038"	0.040"
Inboard Side 180°	0.040"	0.040"	0.040"
Outboard Side 0°	0.042"	0.034"	0.042"
Outboard Side 180°	0.038"	0.033"	0.044"

Electrical Checks

	Resistance		Insulation		
F1-F2	14.1	Ω	550	Ω	at 500 Volts
F3-F4	14.2	Ω	550	Ω	at 500 Volts
F5-F6	14.1	Ω	550	Ω	at 500 Volts
F7-F8	14.1	Ω	550	Ω	at 500 Volts

Approved: Kiran	Date: 25.06.2024	Signature: Dinesh
Instrument No:	-	
Meter Identification No:	TE-30, 31	





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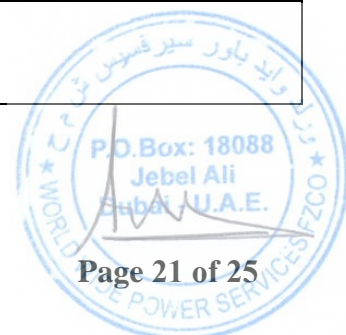
Pre-Delivery Inspection Checklist	Job No	W-24154
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Condition Of:		Condition	Remarks
Lifting Arrangements		P	Pad Eye
Fixing Bolts / Locking Tags		P	
Feet Pads		P	
Mounting Flange	TIF Face	N/A	Horizontal mount
	TIR Spigot	N/A	
	TIR	N/A	
Shaft		P	
Keyways		P	
Coupling		P	
Earth Terminals		P	
Main / Auxiliary Terminals		P	
Cable Entries		P	
Lock Wire Size & Torque tightening		P	
Cable Glands		N/A	
Lubrication Assemblies		P	Roller bearing
Fans / Guards / Covers		N/A	
Name Plate		P	WWPS
Certification Plates		P	WWPS
Paint Work		P	Repainted
Preservation of Exposed Parts		P	

Documentation:	Complied	Remarks
Job Card – Completed / Signed	P	Completed
Test Report – Completed / Signed	P	Completed
Client PO Requirement Carried Out	P	Completed
Client Special Instructions Performed	P	Brake overhauled

Key for Conditions: P = Acceptable O = Not Acceptable N/A = Not Available

Other Observations: Welded and machined both the magnets.	
Packing & Transport Instructions: Packed in a polythene and customer transportation.	
Inspected By: Mahesh	Date: 27.06.2024
Approved By: Kiran	Date: 27.06.2024





WORLD WIDE
Power Services FZCO

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MAGNETIC PARTICLE INSPECTION REPORT

Client : International Rig & Equipment **WWPS Job No.** : W-24154
Date of Test : 02.04.2024 **Date of Report** : 02.04.2024
Material Spec. : Carbon Steel **PO No.** : TS/612/798 REV-1

Magnetic Particle Inspection Technique/ System			
Visible <input checked="" type="checkbox"/>	Fluorescent <input type="checkbox"/>	Yoke Model / Serial No. Y-2/E3921 Calibration Due Date: 04.02.2025	Magnetic Particle Wet <input checked="" type="checkbox"/> Dry <input type="checkbox"/>

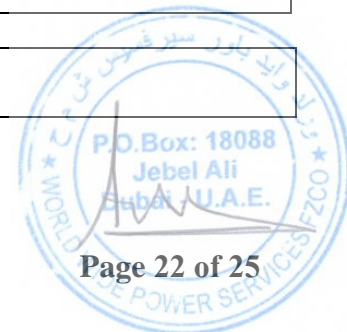
Consumable	Manufacturer	Brand Name	Batch No.	Expiration Date
White Contrast	Magnaflux	WCP-2	230505	May – 2026
Black ink	Magnaflux	7HF	230310	Aug – 2026

No.	Item Description	Heat / Lot No.	Quantity
1	Rotor shaft DE and NDE side		1
2	HUB		1

Procedure Reference : QP-WS-07
 Material Condition : Dismantle
 Surface Condition : Machined
 Lighting Source & Intensity : Daylight above 1076 Lux
 Material temperature : 24°C
 Particle Application : By spray
 Acceptance Criteria : Section II of QP-WS-07, Issue 3, Rev. 1
 Post-Cleaning : Using thinner
 Demagnetization : N/A
 Observation : No relevant indication was observed during the test
 Examination Result : As below
 Accepted Defect Noticed Recommend to attached sketch

	Test Conducted by	Client
Technician	Mahesh	International Rig & Equipment
Level	II	
Reviewed By	Kiran	
Date	02.04.2024	

Additional Information:



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PICTURES

Received Brake



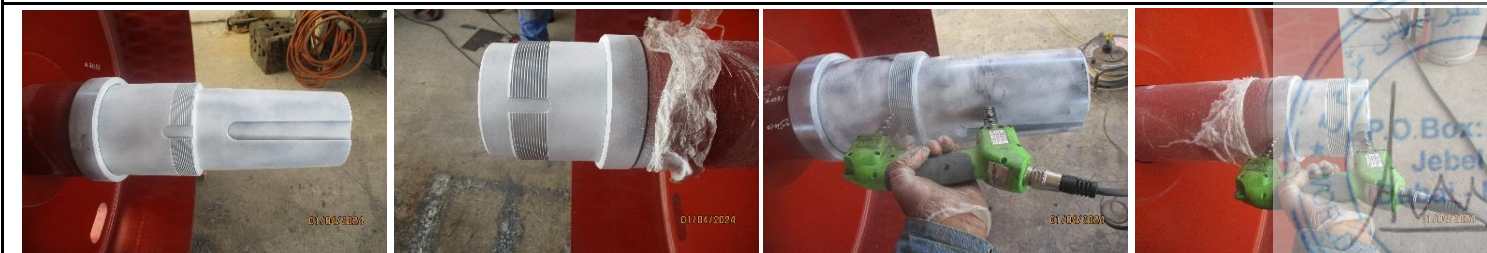
Name Plate Details



Dismantle / Damaged / Rusted Parts



MPI Test



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PICTURES

NDE SIDE DRUM (Deep line marks)



DE SIDE DRUM (Ovality)



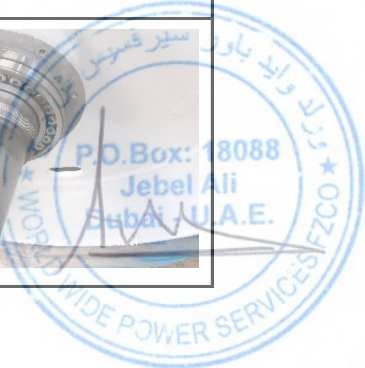
HUB TEETH (Wear & Tear Marks)



Other Tests



Assemble



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PICTURES



Labeling & Final packing before dispatch

