

Job Information

Job #: 94871 Date:

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Murray Hydro Reason: Shaft broken

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: Gould Enclosure: Open Drop Proof Enclosure Type image

(ODP)
Serial#:
Model#:

Service Factor: Frame:

Horsepower/kW: Rated RPM:

Rated Amps: Rated Voltage:

Phase: Cycles:

Special design: No

Nameplate DE ODE F1 F2 Top













WEST TENNESSEE



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: No Contaminant(s): Water

Shaft rotation: — Contaminant(s) Amt: Other

Shaft grounding device No Contaminant Image:

present?:

Shaft runout(TIR-Inbound):

Type of grounding device:

Bearings DE: Worn Bearings DE make: Other

Insulated: No Bearing DE Size: UL21c3 Japan

Bearings ODE: Worn Bearings ODE make: NSK

Bearing Type: Ball Bearing ODE Size: 3206BTNGC3

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Bad Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Grease Thermal Protection device DE:

Lubrication brand inbound: Unknown Thermal Protection device ODE:

Lubrication brand outbound: Unknown

> Grease Amt DE: 0 Grease Cond. DE: Other

Grease Amt ODE: Grease Cond. ODE: Other

Seals DE type: Seals Image: Other

Seals DE size: 3/8 packing

Seals DE (inbound) condition: Worn

Seals ODE type:

Seals Image 2:

Seals ODE size: 3/8 packing

Seals ODE (inbound) condition Worn

Other

Shaft damage cause: Shaft Image: None



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Brg. Image:



Bushings/sleeves image:



Water jacket: N/A Frame cond.: Bad



Motor Mount Position: Other Endbell type: Single piece

Missing parts? Endbell Image:

☐ J-Box cover ☐ O-rings ☐ J-Box

☐ HH cover ☐ Glands ☑ None

Other missing parts







Air Gap Meaurements (N/A on Single Piece Endbell)

Does Air Gap Meet Customer or EASA spec(<10% variation)?

DE @ 0 ODE @ 0 -

DE @ 90 ODE @ 90

DE @ 180 ODE @ 180

DE @ 270 ODE @ 270

AC Electrical Inspection

Number of leads: — Terminal Markings:

Length of leads:

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal

Markings Identified By Color:

Size of leads: 1-Blue 5-Black P1-No color assigned

2-White 6-No color assigned P2-Brown

3-Orange 7-No color assigned

Lead condition: — 4-Yellow 8-Red

Lug type: Connections As Received:

Lug Condition: — Terminal Lugs

Lug size:

Lug Attachment: —

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Rotor



AC Electrical Inspection (Continued)

Rotor Type:	Other		
Rotor Condition:	Ok	Num rotor bars:	
notor Condition.	OK	Num broken bars:	

Rotor Test Results

Visual: Pass Growler: Pass Single phase: Pass

Stator type: Factory If other, stator type:

Stator condition: Ok If other, stator condition:

Failure location: In slot If other, stator failure:



AC Electrical Inspection (Continued)

Winding color:	Like new	Winding	j image	ge Winding Thermal Protection		: Yes			
Winding condition:	Solid								
Winding Thermal Protection DE:	_								
Winding Thermal Protection ODE:	_								
Stator test results:	Rewind								
Megs incoming:	Good	Surge incoming:	Good	Ні-ро	ot incoming:	Good			
Winding Resistance	Incoming								
Ph	ases A to B	Phases B to C	Р	hases C to A	Resistive	imbalance			
Incoming									
Leads/jun	npers: Ok								
If other, leads/jumpers:									
Mechanical Inspection									
Inspect bolt holes and	l fasteners. Val	lidate correct fasteners.							
Shaft Co	ondition: Da	maged	Bea	arings Retainer:	Yes				
Type of grounding	device:		В	earing DE Size:					
Shaft runout(TIR-In	bound):		Bea	aring ODE Size:					
Retainer co	ondition: —								



Seals DE condition: Worn Brg. Seats DE: Good

Seals DE type: Other If DE undersized, amt.:

Seals DE size: 3/8 packing Brg. Seats ODE: Good

Seals DE (inbound) condition: Worn If ODE undersized, amt.:

Seals ODE condition: Worn Shaft damage: Replace

Seals ODE type: Other

Seals ODE size: 3/8 packing Bushings/sleeves DE: Ok

Seals ODE (inbound) condition : Worn Bushings/sleeves ODE: Ok

Endbell fits/damage: Good Foot/Flange condition: Ok

Endbell DE size: 2.4406 Foot flatness: Pass

Endbell DE insulated?: No

Does Air Gap Meet Customer or EASA spec(<10%

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

2.4409



Conclusion

Component Failure

Shaft, bearings and seals

Cause of Failure

Water damage

Comments

The shaft was broken behind the drive end bearing

Service Tech name: Trevor Hall

Service Tech signature: