

Job Information

Job #: 95485 Date: April 24, 2019

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Future fuel Reason:

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: Gould's Enclosure : Open Drop Proof Enclosure Type image

DQ

(ODP)
Serial#: B857534 Model#: B857534-040001

1.15 Frame: X210XY

Horsepower/kW: 20 Rated RPM: 1740

Rated Amps: 26.2 Rated Voltage: 460

Phase: 3 Cycles: 60

No

Nameplate DE ODE F1 F2 Top



Service Factor:

Special design:





Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes Contaminant(s): None

Shaft rotation: CW Contaminant(s) Amt: Cup

Shaft grounding device

present?:

Type of grounding device: None

Shaft runout(TIR-Inbound): .002

Bearings DE: Worn Bearings DE make: SKF

Insulated: No Bearing DE Size: 6212 2Z/C3

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6206 2Z/C3

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: Good Thermal Protection Type: Thermocouple

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Oil Thermal Protection device DE: Good

Lubrication brand inbound: Unknown Thermal Protection device ODE: N/A

Lubrication brand outbound: Unknown

Grease Amt DE: Full Grease Cond. DE: Other

Grease Amt ODE: Full Grease Cond. ODE: Gritty

Seals DE type: Isolators Seals Image:

Seals DE size:

Seals DE (inbound) condition: Worn

Seals Image 2:

Seals ODE size:

Seals ODE type:

Seals ODE (inbound) condition

Worn

Isolators

Shaft damage cause: Keyway bad Shaft Image:



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Brg. Image:



Bushings/sleeves image:



Water jacket: N/A Fan: N/A Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount 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: 3 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: Good 4-Yellow 8-Red

Connections As Received: Lug type:

Lug Condition: Good Terminal Lugs

Lug size:

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Lug Attachment:



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 45

Num broken bars: 0

Rotor



Rotor Test Results

Rotor Condition:

Visual: Pass Growler: Pass Single phase: Pass

Stator type: Factory If other, stator type:

Stator condition: Ok If other, stator condition:

Failure location: Other If other, stator failure:

Stator Image: Failure Image:







AC Electrical Inspection (Continued)

Winding color: Still has color Winding image Winding Thermal Protection: Yes

Winding condition: Solid

Winding Thermal ____ Protection DE:

Winding Thermal Protection ODE:

Stator test results: Salvageable

Megs incoming: Good Surge incoming: Good Hi-pot incoming: Good

Winding Resistance Incoming

Phases A to B Phases B to C Phases C to A Resistive imbalance

Incoming

Leads/jumpers: Ok Lead jumper Image. :

If other, leads/jumpers:

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Worn Bearings Retainer: Yes

Type of grounding device: None Bearing DE Size: 6212 2Z/C3

Shaft runout(TIR-Inbound): .002 Bearing ODE Size: 6206 2Z/C3

Retainer condition: Good

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Seals DE condition: Worn Brg. Seats DE: Good

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

Seals DE size: Brg. Seats ODE: Good

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

Seals ODE condition: Worn Shaft damage: OK

Seals ODE type: Isolators

Seals ODE size:

Bushings/sleeves DE: Ok

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

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

Endbell DE size: 2.3625 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

1.1813



Conclusion

Component F	ailure
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Seals

Cause of Failure

Wear

Comments

Found moisture in oil reservoir. Also found key way worn on shaft. The sensor cord had multiple twists and worn insulation in various places and needs replacing. The initial surge testing of of the windings showed good.

Service Tech name: Terrence Holland

Service Tech signature: