

Job Information

Job #: 94903 Date: November 14,

2018

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Welspun Reason:

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: Korea Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled
Serial#: 10875001 Model#: 1MD6801B00

Service Factor: Frame: 180M

Horsepower/kW: 22 Rated RPM: 1460

Rated Amps: 39.1 Rated Voltage: 415

Phase: 3 Cycles: 50

No

Nameplate DE ODE F1 F2 Top



Special design:









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Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: No Contaminant(s): None

Shaft rotation: Bi-directional Contaminant(s) Amt: None

Shaft grounding device No

present?:

Contaminant Image:

Type of grounding device: None

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: Other

Insulated: No Bearing DE Size: 6311 Z

Bearings ODE: Worn Bearings ODE make: Other

Bearing Type: Ball Bearing ODE Size:

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: — 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: Full Grease Cond. DE: Hard

Grease Amt ODE: Full Grease Cond. ODE: Hard

Seals DE type: Slinger

Seals DE size:

Seals DE (inbound) condition:

Seals ODE type: Slinger

Seals ODE size:

Seals ODE (inbound) condition

:

Shaft damage cause: None Shaft Image:





Brg. Image:



Bushings/sleeves image:



Water jacket:

N/A

Fan:

Ok

Frame cond.:

Good



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece

Missing parts?

O-rings

Endbell Image:

☐ J-Box cover

☐ 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

Connections As Received: Lug type:

Lug Condition: — Terminal Lugs

Lug size:

Lug Attachment:



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok Num rotor bars:

Num broken bars:

Rotor



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:

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 0.307 0.306 0.307 0.2

Leads/jumpers: Ok

If other, leads/jumpers:

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Good Bearings Retainer: No

Type of grounding device: Bearing DE Size: 6311 Z

Shaft runout(TIR-Inbound): Bearing ODE Size: 6209 Z

Retainer condition: —

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Seals DE condition: None Brg. Seats DE: Good

Seals DE type: N/A If DE undersized, amt.:

Seals DE size: Brg. Seats ODE: Good

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

Seals ODE condition: None Shaft damage: OK

Seals ODE type: N/A

Seals ODE size:

Bushings/sleeves DE: Ok

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

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

Endbell DE size: Lip worn Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

Lip worn



Conclusion

Component Failure

Opposite drive end bearing. Both end bell housing fits have worn lips and need to be re-sleeved.

Cause of Failure

Opposite drive end bearing suffered complete cage failure.

Comments

Opposite drive end bearing. Both end bell housing fits have worn lips and need to be re-sleeved. Stator windings checked good.

Service Tech name: Terrence Holland

Service Tech signature:

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