

#### **Job Information**

Job #: 94944 Date: November 28,

2018

Priority: — Authorized OT: No Authorized by:

#### **Customer Information**

Name: WELSPUN Reason:

Contact: Motor#: PO#:

Application: – Special notes:

### **Name Plate Information**

Manufacturer: Wet Enclosure: Totally Enclosed Enclosure Type image

Serial#: DERA315-22 Model#: 1ETEIFR1XX1600

40

Fan Cooled

Service Factor: 1.0 Frame: 315S/M4

Horsepower/kW: 185KW Rated RPM: 1780

Rated Amps: 271 Rated Voltage: 480

Phase: 3 Cycles: 60

Special design: No

Nameplate DE ODE F1 F2 Top













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## **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

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

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

Shaft grounding device

present?:

present?:

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: Other

Insulated: No Bearing DE Size: 6319Z

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6316Z

Bearings Retainer: Yes Thermal Protection: Yes

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: Mobile Polyrex EM Thermal Protection device ODE: —

Lubrication brand outbound: Mobile Polyrex EM

Grease Amt DE: Full Grease Cond. DE: New

Grease Amt ODE: Full Grease Cond. ODE: New

Seals DE type: Slinger Seals Image:

Seals DE size:

Not
Available

Seals DE (inbound) condition :

Seals Image 2:

Seals ODE type: Slinger

Seals ODE size:

Seals ODE (inbound) condition

Shaft damage cause: None Shaft Image:

Not

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Brg. Image:



Bushings/sleeves image:

Not Available

Water jacket:





Fan:





Good



Endbell Image:



Motor Mount Position:

Horizontal/Foot mount

Endbell type:

Single piece

Missing parts?

☐ 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: 6 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:

Lug Attachment: Acceptable





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# **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: Like new Winding image Winding Thermal Protection: Yes

Winding condition: Solid

Winding Thermal Good Protection DE:

Winding Thermal Protection ODE:

Stator test results: Salvageable

Not Available

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 15.736 16.099 15.738 2.3

Leads/jumpers: Ok Lead jumper Image. :

If other, leads/jumpers:

# **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Good Bearings Retainer: Yes

Type of grounding device: Bearing DE Size: 6319

Shaft runout(TIR-Inbound): Bearing ODE Size: 6316

Retainer condition: —



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: Slinger

Seals ODE size:

Bushings/sleeves DE: Ok

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

6.6938Good

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

Endbell DE size: 7.8749 Good Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

Robert Unlerg



#### Conclusion

**Component Failure** 

**Cause of Failure** 

#### **Comments**

DE AND ODE BEARINGS HAD FLUTTING ODE BEARING ALSO Had FRETTING , Needs New Bearings and Fan number 6764.3500

Service Tech name: Robert Wiley

Service Tech signature: