

### **Job Information**

Job #: 96242 Date: November 22,

2019

Priority: — Authorized OT: No Authorized by:

### **Customer Information**

Name: Advanced Fluid Reason:

Contact: Motor#: PO#:

Application: – Special notes:

### **Name Plate Information**

Serial#:

Manufacturer: Homa Enclosure: Open Drop Proof Enclosure Type image

(ODP)

Model#:

Service Factor: Frame:

75435

Horsepower/kW: 64kw Rated RPM: 1160

Rated Amps: 164/82 Rated Voltage: 230/460

Phase: 3 Cycles: 60

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?: Contaminant(s): Water Yes

> Shaft rotation: **CCW** Contaminant(s) Amt: Cup

Shaft grounding device No

Contaminant Image: present?:

Shaft runout(TIR-Inbound): Good

Type of grounding device:

Bearings DE: Worn Bearings DE make: **FAG** 

Insulated: Bearing DE Size: 7313b No

Bearings ODE: Worn Bearings ODE make: **FAG** 

Bearing Type: Bearing ODE Size: Ball 63102zc3

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: Good Thermal Protection Type:

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Lubrication Type: Oil Thermal Protection device DE: Thermal Overloads

Lubrication brand inbound: Mobile Polyrex EM Thermal Protection device ODE: N/A

Lubrication brand outbound: Unknown

Grease Amt DE: Full Grease Cond. DE: New

Grease Amt ODE: Full Grease Cond. ODE: New

Seals DE type: Other Seals Image:

Seals DE size: 65mmx85mm

Seals DE (inbound) condition: Worn

Seals ODE type:

Seals Image 2:

Seals ODE size: 65mmx85mm

Seals ODE (inbound) condition Worn

Other

Shaft damage cause: None Shaft Image:



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Brg. Image:



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





Motor Mount Position: Vertical Flange 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: 30" REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal

Markings Identified By Color:

Size of leads: 4 awg 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: Copper

Lug Condition: Good Terminal Lugs





Lug size:

Lug Attachment:

Same



# **AC Electrical Inspection (Continued)**

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 38

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: Coil-Coil short If other, stator condition:

Failure location: In slot 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: Rewind

Megs incoming: Bad Surge incoming: Bad Hi-pot incoming: Bad

**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: Good Bearings Retainer: Yes

Type of grounding device: Bearing DE Size: 7313b

Shaft runout(TIR-Inbound): 0.001 Bearing ODE Size: 63102zc3

Retainer condition: Good

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Seals DE condition: Worn Brg. Seats DE: Good

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

Seals DE size: Worn Brg. Seats ODE: Good

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

Seals ODE condition: Worn Shaft damage: OK

Seals ODE type: Other

Seals ODE size: Worn Bushings/sleeves DE: Ok

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

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

Endbell DE size: 5.5126 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

4.3312



### Conclusion

#### **Component Failure**

Seals, bearings, windings

**Cause of Failure** 

Water in windings

**Comments** 

Service Tech name: Trevor Hall

Service Tech signature:

TrpM