

Job Information

Job #: 96418 Date: January 15,

2020

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Welspun Tubular Reason:

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Manufacturer: AJAY Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled

Serial#: 21108 Model#:

Service Factor: 1.15 Frame:

Horsepower/kW: 12.5/9.3 Rated RPM: 3450

Rated Amps: 16 Rated Voltage: 480

Phase: 3 Cycles: 60

No

Nameplate DE ODE F1 F2 Top



Special design:







Fax 901-873-5301



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

present?:

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Other Bearings DE make: SKF

Insulated: No Bearing DE Size: 6308-2Z

Bearings ODE: Fell Apart Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6306

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good 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: 1/4 Grease Cond. DE: Hard

Grease Amt ODE: 0 Grease Cond. ODE: Other

Seals DE type: N/A

Seals DE size:

Seals DE (inbound) condition:

Seals ODE type: N/A

Seals ODE size:

Seals ODE (inbound) condition

:

Shaft damage cause: None Shaft Image:





Brg. Image:



Water jacket: N/A Fan: Ok 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

Fan cover bolt







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: 7 in 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: —



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 20

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: Like new Winding image Winding Thermal Protection: No

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 0.00 0.00 0.00

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: 6308

Shaft runout(TIR-Inbound): Bearing ODE Size: 6306

Retainer condition: Good

ax 901-873-5301



Seals DE condition : None Brg. Seats DE: Undersized

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: 3.5425 Foot flatness: Pass

Endbell DE insulated?: —

2.8365

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

variation)?

Endbell ODE insulated?: -

Endbell ODE size:



Conclusion

Component Failure

Cause of Failure

Comments

DE bearing shows signs of chemical discoloration, ODE bearing wiped out, ODE bearing fit on shaft is over sized, DE end bell is under sized, ODE end bell is over sized, and missing a bolt for the fan cover. Recommend new bearings, reconditioning, and machine work.

Chris Chlord

Service Tech name: Chris Wiley

Service Tech signature: