

Job Information

Job #: 95610 Date: June 17, 2019

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Welspun Reason:

Contact: Motor#: PO#:

Application: – Special notes:

Name Plate Information

Serial#:

Manufacturer: Emerson Enclosure: Open Drop Proof Enclosure Type image

(ODP) L12-BF47A-M Model#: BF478

Service Factor: 1.15 Frame: 324TPH

Horsepower/kW: 40 Rated RPM: 1780

Rated Amps: 98/49 Rated Voltage: 230/460

Phase: 3 Cycles: 60

Special design: No

Nameplate DE ODE F1 F2 Top













WEST TENNESSEE



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

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

Shaft rotation: — Contaminant(s) Amt: None

Shaft grounding device

present?:

No

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: SKF

Insulated: No Bearing DE Size: 7220

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6211

Bearings Retainer: Yes Thermal Protection: Yes

Retainer condition: — Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection

Not Available



Lubrication Type: Oil Thermal Protection device DE: -

Lubrication brand inbound: Unknown 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: N/A Seals Image:

Seals DE size:

Not

Available

Seals DE (inbound) condition:

Seals ODE (inbound) condition

Seals ODE type:

N/A

Seals Image 2:

Not Available

Seals ODE size:

Shaft damage cause: None Shaft Image:



Brg. Image:



Bushings/sleeves image:

Not Available

Water jacket:

N/A

Fan:

Ok

Frame cond.:

Good

Not Available Not Available

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: 9 Terminal Markings: 1-9

Length of leads: 18" 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: High voltage Lug type:

Lug Condition: — Terminal Lugs

Lug size:

Not Not Lug Attachment: - Available Available

Fax 901-873-5301



AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Ok

Num rotor bars: 56

Num broken bars:

Rotor



Rotor Test Results

Rotor Condition:

Visual: Pass Growler: Pass Single phase: Pass

Stator type: HISI If other, stator type:

Stator condition: Questionable If other, stator condition:

Failure location: In slot 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: Rewind

Not Available

Megs incoming: Good Surge incoming: Bad 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 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: 7220

Shaft runout(TIR-Inbound): Bearing ODE Size: 6211

Retainer condition: —



Seals DE condition: Worn Brg. Seats DE: Good

Seals DE type: Slinger If DE undersized, amt.: 3.9377

Seals DE size: Brg. Seats ODE: Good

Seals DE (inbound) condition: If ODE undersized, amt.: 2.1658

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

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

Endbell DE size: 7.8749 Foot flatness: Pass

Endbell DE insulated?: No

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

variation)?

Endbell ODE insulated?: No

Endbell ODE size:

3.9378



Conclusion

Component Failure

Cause of Failure

Pump full of plastic

Comments

Motor rewind and bearings. Pump needs new bushings shafts wear rings and bolts

Service Tech name: Robert Wiley

Service Tech signature: