

Job Information

Job #: 94304

Date: May 18, 2018

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Flake board

Reason:

Contact:

Motor#:

PO#:

Application: Direct Drive

Special notes: No nameplate

Name Plate Information

Manufacturer: Unknown

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: 2MA460269

Model#: Unknown

Service Factor: Unknown

Frame: 444T

Horsepower/kW: 200

Rated RPM: 1180

Rated Amps: Unknown

Rated Voltage: Unknown

Phase: 3

Cycles: 60

Special design: No



Nameplate

DE

ODE

F1

F2

Top

Not Available



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes

Contaminant(s): Other

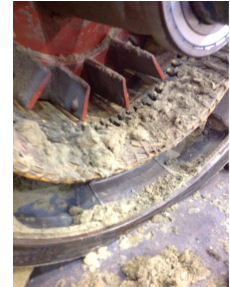
Shaft rotation: Bi-directional

Contaminant(s) Amt: Cup

Shaft Condition: Good

Contaminant Image:

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: 6213 2Z/C3

Bearings ODE: Worn

Bearings ODE make: SKF

Bearing Type: Ball

Bearing ODE Size: 6213 2Z/C3

Bearings Retainer: No

Thermal Protection: No

Retainer condition: —

Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Not Available



Thermal Protection



Not Available



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7030 Ryburn Drive
Millington, TN 38053
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Fax 901-873-5301

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Mechanical Inspection (Continued)

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: 1/2

Grease Cond. DE: New

Grease Amt ODE: 1/2

Grease Cond. ODE: New

Seals DE condition : None

Seals Image:

Seals DE type: N/A

Not
Available

Seals DE size:

Seals DE (inbound) condition :

Seals Image 2:

Seals ODE condition : Worn

Seals ODE type: Slinger

Not
Available

Seals ODE size:

Seals ODE (inbound) condition
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Mechanical Inspection (Continued)

Brg. Seats DE: Good

Brg. Image:



If DE undersized, amt.:

Brg. Seats ODE: Good

If ODE undersized, amt.:

Shaft Image:



Shaft damage: OK

Shaft damage cause: None

Bushings/sleeves DE: Ok

Bushings/sleeves image:



Bushings/sleeves ODE: Ok

Not Available



Water jacket: N/A

Fan: N/A

Frame cond.: Good



Not Available

Not Available



Mechanical Inspection (Continued)

Endbell fits/damage: Good

Endbell type: Single piece

Endbell DE size: 4.724

Endbell Image:



Endbell DE insulated?: No

Endbell ODE size: 4.723

Endbell ODE insulated?: No

Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok

Foot flatness: Pass

Missing parts?

☐ J-Box cover ☐ O-rings ☒ J-Box ☐ HH cover ☐ Glands ☐ None

Other missing parts

Air Gap Measurements (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: None

Length of leads: 18

REF: NEMA Std. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:

Size of leads: 2 awg

1-Blue
2-White
3-Orange
4-Yellow5-Black
6-No color assigned
7-No color assigned
8-RedP1-No color assigned
P2-Brown

Lead condition: Good

Lug type: Copper

Connections As Received: None

Lug Condition: Good

Terminal

Lug size: 2 awg

Not
Available

Lug Attachment: Acceptable

Lugs



Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars: 64

Num broken bars: 0

Rotor



Rotor Test Results

Visual: Pass

Growler: Pass

Single phase: Pass

AC Electrical Inspection (Continued)

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:

Not
Available

Winding color: Like new

Winding image

Winding Thermal Protection: Yes

Winding condition : Solid

Winding Thermal Protection
DE: —Winding Thermal Protection
ODE: —Not
Available

Stator test results: Salvageable

Megs incoming: Good

Surge incoming: Good

Hi-pot incoming: Good

Megs after rewind: Good

Surge after rewind: Good

Hi-pot after rewind: Good

Megs at reassembly: Good

Surge at reassembly: Good

Hi-pot reassembly: Good



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AC Electrical Inspection (Continued)

Core loss: Good

Thermistors: None

Thermostat: None

RTD: None

ohms at

degrees C

Motor Heater(s) Present: No

Qty:

Voltage:

Wattage:

Winding Resistance Incoming

	Phases A to B	Phases B to C	Phases C to A	Resistive imbalance
Incoming	0.127	0.127	0.126	0.7
Outgoing				

Core Test Data

	Flux	Watts	Watts loss per lb	Condition of iron
Before burnout				
After burnout				

Leads/jumpers: Ok

Lead jumper Image:



If other, leads/jumpers:

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Conclusion

Component Failure

None.

Cause of Failure

None

Comments

D.E end bell is broken

Test Run Inspection

Date

— I have merged this motor and verified that all electrical tests are complete!

Power Supply

Phase A

Phase B

Phase C

No Load Voltage

No Load Current

Temperatures: (Degrees Fahrenheit)

Test run ball-bearing motors for 15 minutes.

Test run sleeve bearing motors for 60 minutes.

Temperature rise at the end of test run should be less than 2° every five minutes.

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Test Run Inspection (Continued)

Ambient Temp:

TIME	DE	Degree Change	ODE	Degree Change
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START:

5 MIN:

10 MIN:

15 MIN:

20 MIN:

25 MIN:

30 MIN:

35 MIN:

40 MIN:

45 MIN:

50 MIN:

55 MIN:

60 MIN:

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Test Run Inspection (Continued)

Vibration Data: In./Sec-Peak (Readings should be less than .08 In/Sec Peak)

Horizontal

VDE

Axial

DE

ODE

Magnetic Center Measurements (Only Applies to Sleeve Bearing Motors)

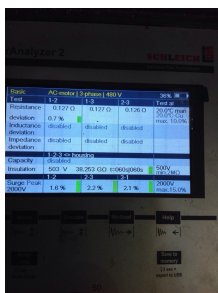
Magnetic Center line distance from shaft shoulder

Magnetic Center line distance from all the way out mark

Magnetic Center line distance from all the way in mark

Total Motor End Float

Additional photos



☐ Yes, the shaft has been isolated for delivery.

Service Tech name: Dewey

Service Tech signature:

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