

Job Information

Job #: 95779

Date: July 29, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Sage Foods

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer: Bald or

Enclosure : Open Drop Proof (ODP)

Enclosure Type image

Serial#: C0809190346

Model#: EM2334T

Service Factor: 1.15

Frame: 256T

Horsepower/kW: 20

Rated RPM: 1765

Rated Amps: 48/24

Rated Voltage: 230/460

Phase: 3

Cycles: 60

Special design: No



Nameplate

DE

ODE

F1

F2

Top



WEST TENNESSEE

7030 Ryburn Drive
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Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: —

Contaminant(s): None

Shaft rotation: —

Contaminant(s) Amt: None

Shaft Condition: —

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: 6309

Bearings ODE: Worn

Bearings ODE make: SKF

Bearing Type: Ball

Bearing ODE Size: 6208

Bearings Retainer: Yes

Thermal Protection: Yes

Retainer condition: —

Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection



Not Available





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Mechanical Inspection (Continued)

Lubrication Type: Oil

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 condition : Worn

Seals Image:

Seals DE type: Slinger

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.: 1.772

Brg. Seats ODE: Good

If ODE undersized, amt.: 1.575

Shaft Image:

Shaft damage: OK

Shaft damage cause: None

Bushings/sleeves DE: Ok

Bushings/sleeves image:

Bushings/sleeves ODE: Ok

Not
Available

Water jacket: Ok

Fan: Ok

Frame cond.: Good

Not
Available



Mechanical Inspection (Continued)

Endbell fits/damage: Good

Endbell type: Single piece

Endbell DE size: 3.937

Endbell Image:



Endbell DE insulated?: No

Endbell ODE size: 3.150

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: —

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

Lead condition: —

Lug type:

Connections As Received:

Lug Condition: —

Lug size:

Lug Attachment: —

Terminal



Lugs



Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars: 40

Num broken bars:

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: In slot

If other, stator failure:

Stator Image:



Failure Image:



Winding color: Like new

Winding image

Winding Thermal Protection: Yes

Winding condition : Solid

Winding Thermal Protection
DE: —

Winding Thermal Protection
ODE: —


Stator test results: Rewind

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: Yes

Qty:

Voltage:

Wattage:

Winding Resistance Incoming

Phases A to B

Phases B to C

Phases C to A

Resistive imbalance

Incoming

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

Cause of Failure

Noise Bearings

Comments

Test Run Inspection

Date July 29, 2019

— 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:

Service Tech signature:

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