Job Information

Job #: 143205 Date: August 24, 2020

Priority: — Authorized OT: No Authorized by: Terry

Customer Information

Name: Hershey Reason:

Contact: Motor#: PO#:

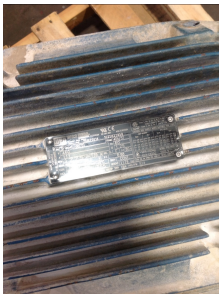
Application: — Special notes:

Name Plate Information

Manufacturer:	WEG	Enclosure :	Totally Enclosed Fan Cooled
Serial#:	1025623858	Model#:	25sep2
Service Factor:	1.15	Frame:	404/5t
Horsepower/kW:	75	Rated RPM:	1775
Rated Amps:	111	Rated Voltage:	460
Phase:	3	Cycles:	
Special design:	No		

Enclosure Type image

Nameplate



DE

ODE

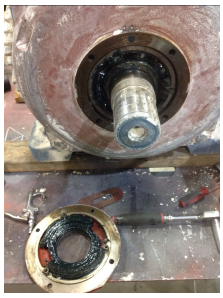
F1

F2

Top

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	Grease
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Full
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	314
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	314
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	—

Bearing Type Image

Bearing Make Image

Bearing Retainer Image

Thermal Protection

Mechanical Inspection (Continued)

Lubrication Type:	Grease	Thermal Protection device DE:	N/A
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	N/A
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	Full	Grease Cond. DE:	Watery
Grease Amt ODE:	Full	Grease Cond. ODE:	Watery
Seals DE type:	Other	Seals Image:	
Seals DE size:			
Seals DE (inbound) condition :			
		Seals Image 2:	
Seals ODE type:	Other		
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	None	Shaft Image:	

Mechanical Inspection (Continued)

Brg. Image:

Bushings/sleeves image:

Water jacket: Ok

Fan: Ok

Frame cond.: Good

Motor Mount Position: Horizontal/Foot mount

Endbell type: Single piece

Missing parts?

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

Endbell Image:

Other missing parts

Mechanical Inspection (Continued)

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: 12

Length of leads: 18 inches

Size of leads: AWG 4

Lead condition: Good

Lug type: Regular

Lug Condition: Good

Lug size: 3/8 hole

Lug Attachment: —

Terminal Markings: 1-12

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

1-Blue
2-White
3-Orange
4-Yellow
5-Black
6-No color assigned
7-No color assigned
8-Red
P1-No color assigned
P2-Brown

Connections As Received:

Terminal

Lugs

AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:	42
Num broken bars:	0

Rotor

Rotor Test Results

Visual: Pass Growler: Pass Single phase: Pass

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:

AC Electrical Inspection (Continued)

Winding color: Like new

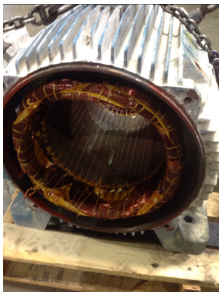
Winding condition : Solid

Winding Thermal Protection DE: —

Winding Thermal Protection ODE: —

Stator test results: Salvageable

Winding image



Winding Thermal Protection: Yes

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	0.7	0.7	0.7	1.4

Leads/jumpers: Ok

If other, leads/jumpers:

Lead jumper Image. :

Conclusion

Component Failure

Bearings and fits also very dirty moisture got inside motor

Cause of Failure

Bearings look to have gotten hot due to oversized fits on endbell

Comments

Check fits new bearings and clean stator rotor
On fan there is a rubber o ring that goes on after fan

Service Tech name: Terry f

Service Tech signature: