Job Information

Job #: 94156 Date: April 6, 2018

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Horseless foods Reason:

Contact: Motor#: PO#:

Application: — Special notes:

Name Plate Information

Manufacturer:	Baldor	Enclosure :	Totally Enclosed Fan Cooled	Enclosure Type image
Serial#:		Model#:		
Service Factor:	1.15	Frame:	447Ty	
Horsepower/kW:	250	Rated RPM:	3575	
Rated Amps:	228	Rated Voltage:	460	
Phase:	3	Cycles:	60	
Special design:	No			

Nameplate DE ODE F1 F2 Top




Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	None
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE:	Other	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	NU 313ECM/C3
Bearings ODE:	Other	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	6313-2Z/C3GJN
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	—	Thermal Protection Type:	—

Bearing Type Image

Bearing Make Image

Bearing Retainer Image

Thermal Protection

Mechanical Inspection (Continued)

Lubrication Type:	Oil	Thermal Protection device DE:	—
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	—
Lubrication brand outbound:	Unknown		
Grease Amt DE:	N/A	Grease Cond. DE:	Other
Grease Amt ODE:	1/4	Grease Cond. ODE:	Charred
Seals DE type:	Slinger	Seals Image:	
Seals DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	Slinger		
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: 6

Length of leads: 20"

Size of leads: 1/0 awg 200c 1000v

Lead condition: Good

Lug type:

Lug Condition: —

Lug size:

Lug Attachment: —

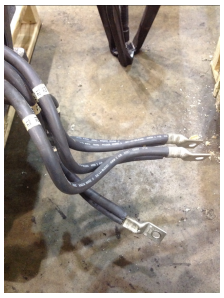
Terminal Markings:

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:

Num broken bars:

Rotor

Rotor Test Results

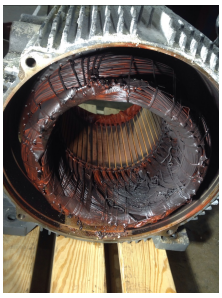
Visual: Pass Growler: Pass Single phase: Pass

Stator type: Factory If other, stator type:

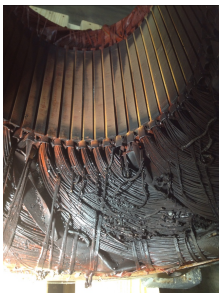
Stator condition: Ok If other, stator condition:

Failure location: Coil head If other, stator failure:

Stator Image:



Failure Image:



AC Electrical Inspection (Continued)

Winding color: Dull black

Winding image

Winding Thermal Protection: Yes

Winding condition : Solid

Winding Thermal Protection DE: —

Winding Thermal Protection ODE: —

Stator test results: Rewind

Megs incoming: Bad

Surge incoming: Bad

Hi-pot incoming: Bad

Winding Resistance Incoming

	Phases A to B	Phases B to C	Phases C to A	Resistive imbalance
Incoming				

Leads/jumpers: Ok

Lead jumper Image:

If other, leads/jumpers:

Conclusion

Component Failure

Cause of Failure

Windings shorted coil to coil.

Comments

Disassembly of motor revealed two major problems. 1) The primary cause of failure was a coil to coil short on the drive end side of the motor. 2) The opposite drive end bearing housing apparently contained old grease and was not greased on a regular basis.

Service Tech name: Terrence Holland

Service Tech signature: