Job Information

Job #: 141531 Date: January 9, 2020

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: POST FOODS Reason:

Contact: Motor#: 141531 PO#:

Application: Direct Drive Special notes:

Name Plate Information

Manufacturer:	BALDOR	Enclosure :	Open Drop Proof (ODP)
Serial#:	N0901230006	Model#:	181392Y41561
Service Factor:	1.15	Frame:	449TSC
Horsepower/kW:	300	Rated RPM:	3565
Rated Amps:	39	Rated Voltage:	4160
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image

Nameplate

DE

ODE

F1

F2

Top

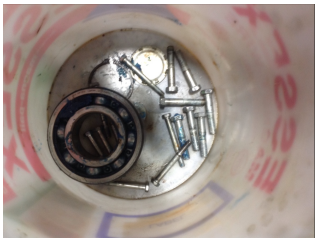
Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	No	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:	Locked up	Bearings DE make:	NTN
Insulated:	No	Bearing DE Size:	6314C3
Bearings ODE:	Other	Bearings ODE make:	NTN
Bearing Type:	Ball	Bearing ODE Size:	6314C3
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Bad	Thermal Protection Type:	—

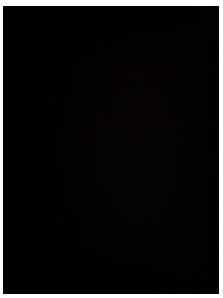
Bearing Type Image



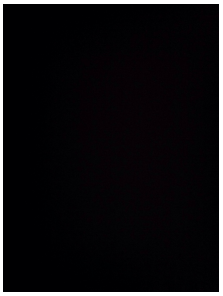
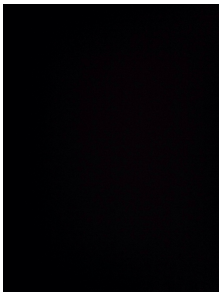
Bearing Make Image

Bearing Retainer Image

Thermal Protection



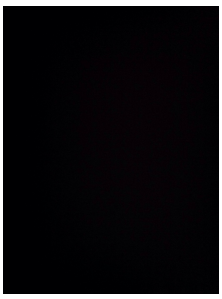
Mechanical Inspection (Continued)

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:	Full	Grease Cond. DE:	Charred
Grease Amt ODE:	Full	Grease Cond. ODE:	New
Seals DE type:	N/A	Seals Image:	
Seals DE size:			
Seals DE (inbound) condition :			
		Seals Image 2:	
Seals ODE type:	N/A		
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	Other	Shaft Image:	

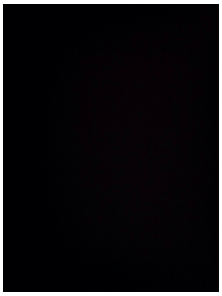
Mechanical Inspection (Continued)

Brg. Image:

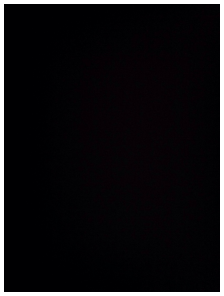
Bushings/sleeves image:



Water jacket: N/A



Fan: N/A



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: 3

Length of leads: 24"

Size of leads: #8

Lead condition: Good

Lug type: Reg

Lug Condition: Good

Lug size: 8

Lug Attachment: Acceptable

Terminal Markings: 1-2-3

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: Open

Terminal

Lugs

AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:	50
Num broken bars:	0

Rotor

Rotor Test Results

Visual: Pass Growler: Pass Single phase: Pass

Stator type: Factory

If other, stator type: FACTORY

Stator condition: Ok

If other, stator condition: Ok

Failure location: Other

If other, stator failure: N/A

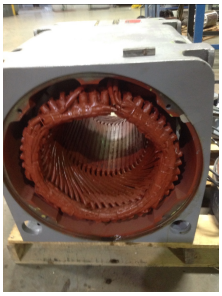
Stator Image:

Failure Image:

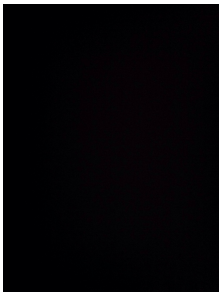
AC Electrical Inspection (Continued)

Winding color: Like new

Winding image



Winding Thermal Protection: No



Winding condition : Solid

Winding Thermal Protection DE: —

Winding Thermal Protection ODE: —

Stator test results: Salvageable

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				

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers:

Conclusion

Component Failure

Bearing in the drive end an the drive end Bell as well as the drive end JRL

Cause of Failure

Bad bearing and looks too be miss aligned

Comments

Two new bearings 2# 6314C3
Spring washer needs to be replaced it goes in the drive end
Coupling on the DR end is FLUSH
Clean up and wash stator then bake
Mach work on the bearing housings as well as DR END JRL

Service Tech name: Michael

Service Tech signature: