Job Information

Job #: 140833 Date: October 4, 2019

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Process and power Reason:

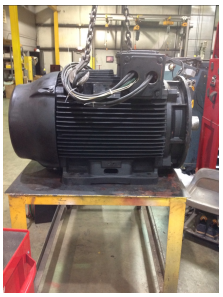
Contact: Motor#: 140833 PO#:

Application: — Special notes:

Name Plate Information

Manufacturer:	Ingersoll rand	Enclosure :	Totally Enclosed Fan Cooled
Serial#:		Model#:	TE1BFOXO$
Service Factor:	1.21	Frame:	280S/M
Horsepower/kW:	200	Rated RPM:	1733
Rated Amps:	228	Rated Voltage:	460
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image



Nameplate

DE

ODE

F1

F2

Top

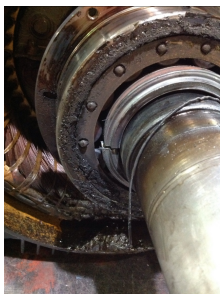
Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

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

Bearings DE:	Worn	Bearings DE make:	Koyo
Insulated:	No	Bearing DE Size:	319R
Bearings ODE:	Worn	Bearings ODE make:	Koyo
Bearing Type:	Ball	Bearing ODE Size:	6316ZZC3
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	—

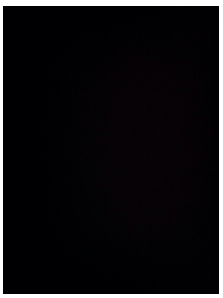
Bearing Type Image



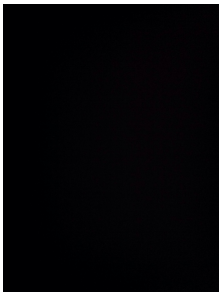
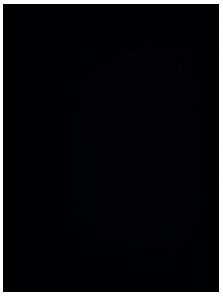
Bearing Make Image

Bearing Retainer Image

Thermal Protection

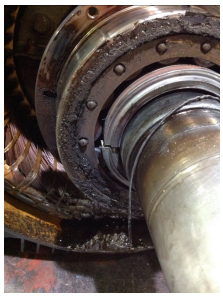


Mechanical Inspection (Continued)

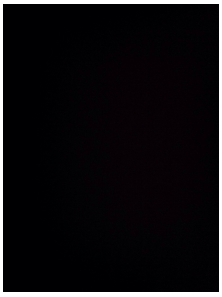
Lubrication Type:	Grease	Thermal Protection device DE:	Good
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	N/A
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	0	Grease Cond. DE:	Charred
Grease Amt ODE:	3/4	Grease Cond. ODE:	New
Seals DE type:	N/A	Seals Image:	
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)

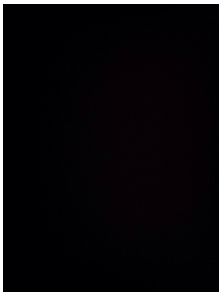
Brg. Image:



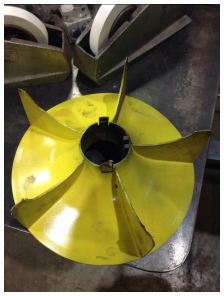
Bushings/sleeves image:



Water jacket: N/A



Fan: 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: 5'

Size of leads: 2awg

Lead condition: Good

Lug type:

Lug Condition: Good

Lug size:

Lug Attachment: Acceptable

Terminal Markings:

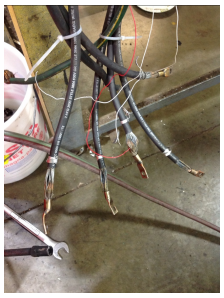
REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:

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: Questionable

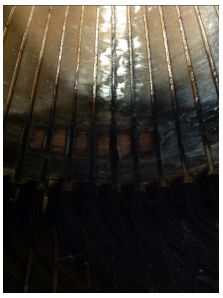
If other, stator condition:

Failure location: In slot

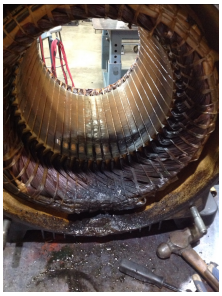
If other, stator failure:

Stator Image:

Failure Image:



AC Electrical Inspection (Continued)

Winding color:	Like new	Winding image		Winding Thermal Protection:	Yes
Winding condition :	Solid				
Winding Thermal Protection DE:	Good				
Winding Thermal Protection ODE:	—				
Stator test results:	Rewind				

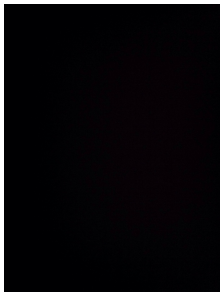
Megs incoming: Bad Surge incoming: Bad Hi-pot incoming: Bad

Winding Resistance Incoming

	Phases A to B	Phases B to C	Phases C to A	Resistive imbalance
Incoming	0.107	0.0979	0.106	9

Leads/jumpers: Other

Lead jumper Image. :



If other, leads/jumpers:

Conclusion

Component Failure

Bearings and winding

Cause of Failure

Bearing failed causing the rotor to drag on the iron causing a short in the winding

Comments

Service Tech name: Stone Hubbard

Service Tech signature: