Job Information

Job #:	142031			Date:	March 6, 2020
Priority:	—	Authorized OT:	No	Authorized by:	Terrf

Customer Information

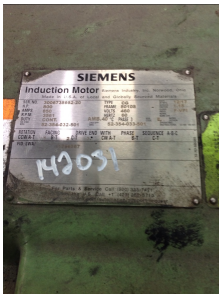
Name:	Process and power	Reason:	Fire ball
Contact:		Motor#:	
PO#:			
Application:	—	Special notes:	

Name Plate Information

Manufacturer:	Siemens	Enclosure :	Open Drop Proof (ODP)
Serial#:	3006735952-20	Model#:	Induction motor
Service Factor:	1.15	Frame:	50106
Horsepower/kW:	800	Rated RPM:	3600
Rated Amps:	850	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):	None
Shaft rotation:	CW	Contaminant(s) Amt:	None
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE:	Worn	Bearings DE make:	FAG
Insulated:	No	Bearing DE Size:	Mbm556
Bearings ODE:	Worn	Bearings ODE make:	FAG
Bearing Type:	Babbitt	Bearing ODE Size:	Mbm551
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:	N/A
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	N/A
Lubrication brand outbound:	Unknown		
Grease Amt DE:	1/4	Grease Cond. DE:	Other
Grease Amt ODE:	1/4	Grease Cond. ODE:	Other
Seals DE type:	Slinger	Seals Image:	
Seals DE size:			
Seals DE (inbound) condition :			
		Seals Image 2:	
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: 12

Length of leads: 3foot

Size of leads: 2/0 AWG

Lead condition: Bad

Lug type: 2 hole

Lug Condition: Bad

Lug size: Black dye 13

Lug Attachment: Replace

Terminal Markings: 1/1 2/2 3/34/45/56/6

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: 1-6

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: In slot If other, stator failure:

Stator Image:

Failure Image:

AC Electrical Inspection (Continued)

Winding color: Dull black

Winding image

Winding Thermal Protection: Yes

Winding condition : Mushy

Winding Thermal Protection DE: —

Winding Thermal Protection ODE: —

Stator test results: Rewind

Megs incoming: Bad

Surge incoming: Bad

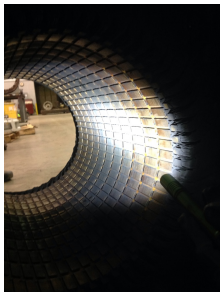
Hi-pot incoming: Bad

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

Winding failed

Cause of Failure

Black crud inside motor

Comments

Customer said motor shot out black fire ball , motor needs rewinding,

Service Tech name: Terry f

Service Tech signature: