Job Information

Job #: 94127 Date: March 29, 2018

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Ryerson Reason:

Contact: Motor#: PO#:

Application: — Special notes: Fan blade and base attachments.

Name Plate Information

Manufacturer:	Baldor	Enclosure :	Totally Enclosed Fan Cooled
Serial#:	Z1304260044	Model#:	09P0112601
Service Factor:	1.15	Frame:	256T
Horsepower/kW:	20	Rated RPM:	3520
Rated Amps:	46/23	Rated Voltage:	230/460
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image

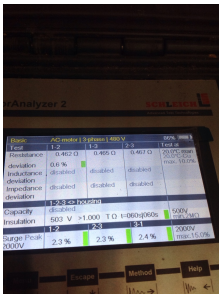
Nameplate

DE

ODE

F1

F2



Top

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

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

Bearings DE:	Worn	Bearings DE make:	Koyo
Insulated:	No	Bearing DE Size:	63092Z
Bearings ODE:	Worn	Bearings ODE make:	NACHI
Bearing Type:	Ball	Bearing ODE Size:	6208ZE C3
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:	Grease	Thermal Protection device DE:	—
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	—
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	1/2	Grease Cond. DE:	Gritty
Grease Amt ODE:	1/2	Grease Cond. ODE:	Gritty
Seals DE type:	Slinger		
Seals DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	Slinger		
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	None	Shaft Image:	

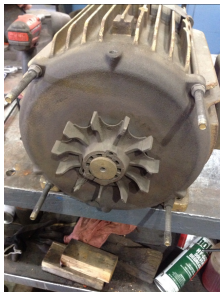
Mechanical Inspection (Continued)

Brg. Image:

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

Other missing parts

Endbell Image:

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: 9

Length of leads: 6"

Size of leads:

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: In slot If other, stator failure:

Stator Image:

AC Electrical Inspection (Continued)

Winding color: Like new

Winding image

Winding Thermal Protection: Yes

Winding condition : Solid

Winding Thermal Protection DE: —

Winding Thermal Protection ODE: —

Stator test results: Rewind

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	0.462	0.467	0.465	0.6

Leads/jumpers: Ok

If other, leads/jumpers:

Conclusion

Component Failure

Bearings/o.d.e end-bell bearing housing fit had excessive wear.

Cause of Failure

Comments

Recommend repairing o.d.e, bearing housing fit. Also the bearing grease was contaminated with grit.

Service Tech name: Terrence Holland

Service Tech signature: