Job Information

Job #:	95912			Date:	September 5, 2019
Priority:	—	Authorized OT:	No	Authorized by:	

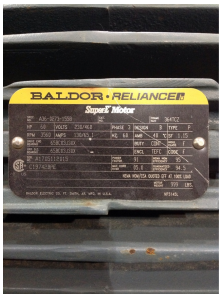
Customer Information

Name:	Fiber Glass Systems			Reason:	
Contact:		Motor#:		PO#:	
Application:	—	Special notes:			

Name Plate Information

Manufacturer:	Baldor	Enclosure :	Totally Enclosed Fan Cooled	Enclosure Type image
Serial#:	A1705112015	Model#:		
Service Factor:	1.15	Frame:	364TCZ	
Horsepower/kW:	60	Rated RPM:	3560	
Rated Amps:	130/65.1	Rated Voltage:	230/460	
Phase:	3	Cycles:	60	
Special design:	No			

Nameplate



DE

ODE

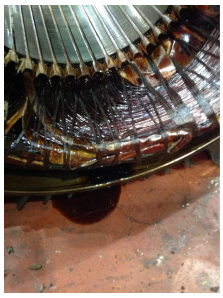
F1

F2

Top

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	Oil
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Other
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):	0.002		

Bearings DE:	Worn	Bearings DE make:	NACHI
Insulated:	No	Bearing DE Size:	6313
Bearings ODE:	Worn	Bearings ODE make:	NACHI
Bearing Type:	Ball	Bearing ODE Size:	6313
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:	—
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	—
Lubrication brand outbound:	Unknown		
Grease Amt DE:	1/4	Grease Cond. DE:	Hard
Grease Amt ODE:	1/4	Grease Cond. ODE:	Hard
Seals DE type:	N/A		
Seals DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	N/A		
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	None	Shaft Image:	

Mechanical Inspection (Continued)

Brg. Image:

Water jacket: N/A

Fan: Broken

Frame cond.: Good

Motor Mount Position: Horizontal/Foot mount

Endbell type: Single piece

Missing parts?

- [x] 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: 9

Length of leads: 16 in

Size of leads:

Lead condition: Bad

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:	40
Num broken bars:	0

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:	Shiny black	Winding image		Winding Thermal Protection:	No
Winding condition :	Charred				
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	0.00	0.00	0.00	

Leads/jumpers:	Replace	Lead jumper Image. :	
If other, leads/jumpers:			

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	6313
Shaft runout(TIR-Inbound):	0.003	Bearing ODE Size:	6313
Retainer condition:	Good		

Mechanical Inspection (Continued)

Seals DE condition :	Worn	Brg. Seats DE:	Good
Seals DE type:	N/A	If DE undersized, amt.:	
Seals DE size:		Brg. Seats ODE:	Good
Seals DE (inbound) condition :		If ODE undersized, amt.:	
Seals ODE condition :	Worn	Shaft damage:	OK
Seals ODE type:	N/A		
Seals ODE size:		Bushings/sleeves DE:	Ok
Seals ODE (inbound) condition :		Bushings/sleeves ODE:	Ok
Endbell fits/damage:	Good	Foot/Flange condition:	Ok
Endbell DE size:	5.5118	Foot flatness:	Pass
Endbell DE insulated?:	—		
Endbell ODE size:	5.5119	Does Air Gap Meet Customer or EASA spec(<10% variation)?	
Endbell ODE insulated?:	—	—	

Conclusion

Component Failure

Cause of Failure

Comments

Motor was overloaded causing the windings to blow out. Both DE and ODE shaft fits for the bearings are undersized. Both bearings show signs of wear and contamination. The fan is melted from the heat of the motor being overloaded.

Service Tech name: Chris Wiley

Service Tech signature: