Job Information

Job #: 96084 Date: October 8, 2019

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Arauco Reason:

Contact: Motor#: PO#:

Application: — Special notes:

Name Plate Information

Manufacturer:	Siemens	Enclosure :	Totally Enclosed Fan Cooled
Serial#:		Model#:	TYPE:RGZSD
Service Factor:	1.15	Frame:	445TS
Horsepower/kW:	150	Rated RPM:	1780
Rated Amps:	170	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?:	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:	NACHI
Insulated:	No	Bearing DE Size:	6316
Bearings ODE:	Worn	Bearings ODE make:	NACHI
Bearing Type:	Ball	Bearing ODE Size:	6316
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:	Full	Grease Cond. DE:	Hard
Grease Amt ODE:	Full	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: Loose

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: 6

Length of leads: 16 in

Size of leads:

Lead condition: Bad

Lug type:

Lug Condition: Good

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:	36
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: Other If other, stator failure:

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	0.00	0.00	0.00	

Leads/jumpers: Ok

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: 6316

Shaft runout(TIR-Inbound):

Bearing ODE Size: 6316

Retainer condition: Good

Mechanical Inspection (Continued)

Seals DE condition :	None	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 :	None	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:	Bad	Foot/Flange condition:	Ok
Endbell DE size:	6.6958	Foot flatness:	Pass
Endbell DE insulated?:	—		
Endbell ODE size:	6.6963	Does Air Gap Meet Customer or EASA spec(<10% variation)?	
Endbell ODE insulated?:	—	—	

Conclusion

Component Failure

Cause of Failure

Comments

Both end bells are over sized, both bearings show signs of frosting, the fan is loose on the shaft. Recommend reconditioning, new fan, ageis ring, new bearings, and machine work on both end bells.

Service Tech name: Chris Wiley

Service Tech signature: