

Job Information

Job #:	97301				Date:	September 8, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	Name: Arauco		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	Siemens	Enclosure :	Totally Enclosed Fan Cooled
Serial#:	L03T0109NP4	Model#:	
Service Factor:	1.15	Frame:	445T
Horsepower/kW:	150	Rated RPM:	1785
Rated Amps:	170	Rated Voltage:	460
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image





DE

ODE

F1

F2

Тор







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Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

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

Bearings DE:	Worn	Bearings DE make:	NACHI
Insulated:	No	Bearing DE Size:	318NU
Bearings ODE:	Worn	Bearings ODE make:	FAG
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



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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:	Charred
Grease Amt ODE:	Full	Grease Cond. ODE:	Other
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:	



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Mechanical Inspection (Continued)

Brg. Image:



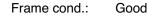
Water jacket:

N/A

Fan: Ok



Endbell Image:





Motor Mount Position: Horizontal/Foot mount Endbell type:

Single piece

J-Box cover HH cover

Missing parts?

J-Box O-rings Glands

V None





Other missing parts

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Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Single Pie	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

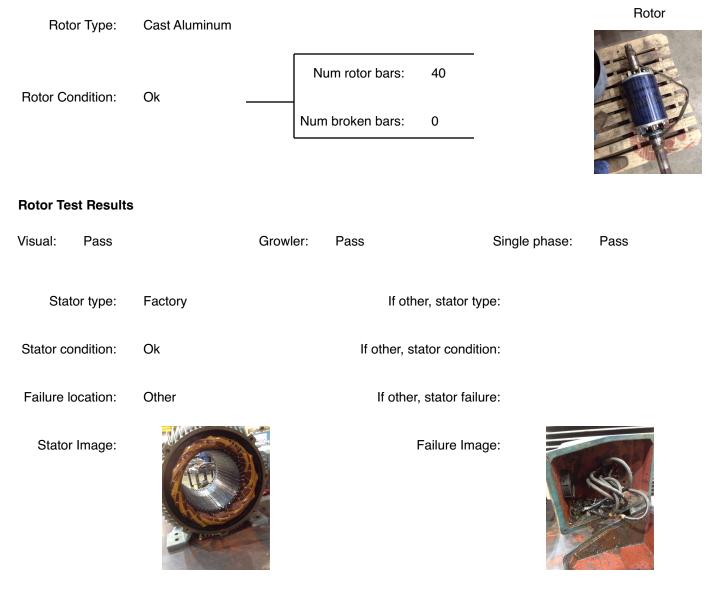
Number of leads:	6	Terminal Markings:		
Length of leads:	17.5	REF: NEMA Sto Markings Identi	ds. MG 1-2009, Rev. 1- fied By Color:	2010, 2.41-Terminal
Size of leads:		1-Blue 2-White 3-Orange	5-Black 6-No color assigned 7-No color assigned	P1-No color assigned P2-Brown
Lead condition:	Bad	4-Yellow	8-Red	
Lug type:		Connections As Re	eceived:	
Lug Condition:	_		Terminal	Lugs
Lug size:				
Lug Attachment:	_			

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AC Electrical Inspection (Continued)



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AC Electrical Inspection (Continued)

Winding color	r: Like new	Winding	g image Wir	nding Thermal Protect	ion: No
Winding condition	: Solid				
Winding Therma Protection DE					
Winding Therma Protection ODE					
Stator test results	: Salvageable				
Megs incoming:	Good	Surge incoming:	Good	Hi-pot incoming:	Good
Winding Resistanc	e Incoming				
-	hases A to B	Phases B to C	Phases C	to A Resistiv	ve imbalance
Incoming C	0.00	0.00	0.00		
Leads/ju	impers: Ok		Lead jur	nper Image. :	
lf other, leads/ju	impers:				
Mechanical Inspection					
Inspect bolt holes ar	nd fasteners. Valida	te correct fasteners.			
Shaft C	Condition: Good		Bearings Re	etainer: Yes	

Type of grounding device:

Shaft runout(TIR-Inbound):

Retainer condition:

: Good

Bearing DE Size: 318 Bearing ODE Size: 6316

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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:	ОК
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:	7.4820 BAD	Foot flatness:	Pass
Endbell DE insulated?:	_	Does Air Gap Meet Cust	tomer or EASA spec(<10%
Endbell ODE size:	6.6939	variation)?	
Endbell ODE insulated?:	_		

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Conclusion

Component Failure

Bearings and leads and DE end bell

Cause of Failure

Sings of frosting in the bearings and possible loose connection on the leads and DE end bell is over sized

Comments

Recommend reconditioning, new bearings, aegis ring, replace the leads, and machine work on DE end bell

Service Tech name: Chr

Chris Wiley

Service Tech signature:

May all

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