

Job Information

Job #:	97218				Date:	August 19, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

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

Name Plate Information

Manufacturer:	Siemens	Enclosure :	Totally Enclosed	Enclosure Type image
Serial#:		Model#:	Fan Cooled	
Service Factor:	1.15	Frame:	444T	
Horsepower/kW:	125	Rated RPM:	1785	and the second
Rated Amps:	143	Rated Voltage:	460	600
Phase:	3	Cycles:	60	
Special design:	No			

Nameplate

DE

ODE

F1

F2



Тор

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Mechanical Inspection

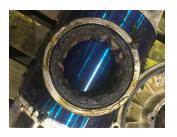
Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	No	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:	NSK
Insulated:	No	Bearing DE Size:	NU318
Bearings ODE:	Worn	Bearings ODE make:	Other
Bearing Type:	Ball	Bearing ODE Size:	6316
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	_	Thermal Protection Type:	_

Bearing Type 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:	Charred
Seals DE type: Seals DE size: Seals DE (inbound) condition :	Slinger	Seals Image:	
Seals ODE type: Seals ODE size: Seals ODE (inbound) condition :	Slinger	Seals Image 2:	

Shaft damage cause:

None

Shaft Image:



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Mechanical Inspection (Continued)

Brg. Image:



Water	jacket:	N/A

N/A

Fan: Ok



Frame cond.: Good



Single piece

Motor Mount Position: Horizontal/Foot mount Missing parts?

O-rings

Glands

Endbell Image:



Endbell type:



Other missing parts

J-Box cover

HH cover

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J-Box

None



Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Single Pier	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	

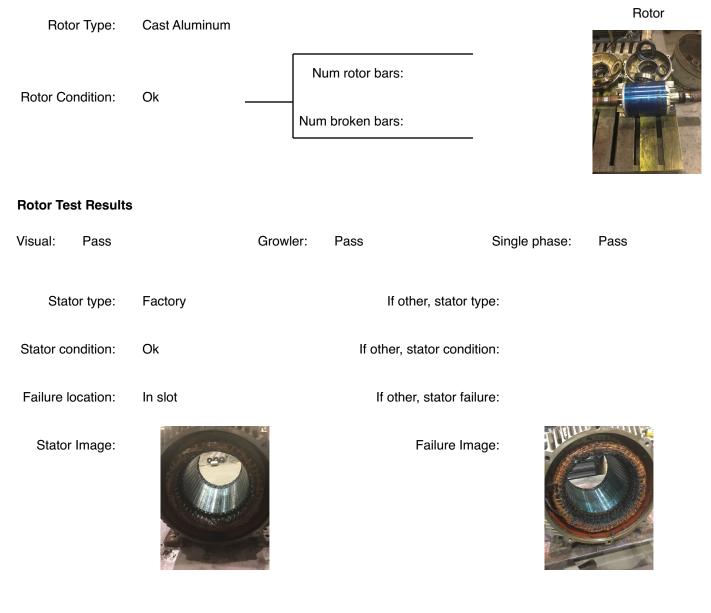
AC Electrical Inspection

Number of leads:	6	Terminal Markings:	11 22 33	
Length of leads:	24"	REF: NEMA Stds Markings Identifie	. MG 1-2009, Rev. 1- ed By Color:	2010, 2.41-Terminal
Size of leads:	#6	1-Blue 2-White 3-Orange	5-Black 6-No color assigned 7-No color assigned	P1-No color assigned P2-Brown
Lead condition:	Good	4-Yellow	8-Red	
Lug type:		Connections As Rec	eived:	
Lug Condition:	_	Т	erminal	Lugs
Lug size:				
Lug Attachment:	_			

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AC Electrical Inspection (Continued)



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AC Electrical Inspection (Continued)

Winding colo	or:	Like new	Winding	ı image	Winding Thermal I	Protection: I	No		
Winding condition	ו :	Solid	Ĭ						
Winding Therm Protection DI		_							
Winding Therm Protection ODI		_							
Stator test result	s:	Salvageable							
Megs incoming:	Go	od	Surge incoming:	Good	Hi-pot inco	oming: Goo	d		
Winding Resistand	ce In	coming							
F	Phase	es A to B	Phases B to C	Phase	es C to A	Resistive imbala	ance		
Incoming	0.00		0.00	0.00		0.00			
Leads/ji	umpe	ers: Ok							
lf other, leads/ji	umpe	ers:							

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	NU318
Shaft runout(TIR-Inbound):		Bearing ODE Size:	6316

Retainer condition:

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Mechanical Inspection (Continued)

Seals DE condition :	Worn	Brg. Seats DE:	Good
Seals DE type:	N/A	If DE undersized, amt.:	3.5443
Seals DE size:		Brg. Seats ODE:	Good
Seals DE (inbound) condition :		If ODE undersized, amt.:	3.1500
Seals ODE condition :	Worn	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:	7.4815	Foot flatness:	Pass
Endbell DE insulated?:	No	Does Air Gap Meet Cu	stomer or EASA spec(<10%
Endbell ODE size:	6.6939	variation)?	
Endbell ODE insulated?:	No	_	

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Conclusion

Component Failure

Cause of Failure

Comments

Found flutting moisture corrosion and electric erosion in ode bearing found rust and moisture corrosion in de bearing

Service Tech name:

Robert Wiley

Service Tech signature:

Rozens Wiles

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