

Job Information

Job #:	142055				Date:	March 9, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	KTG	G Reason:			
Contact:		Motor#:	142055		PO#:
Application:	_	Special not	es:		

Name Plate Information

Manufacturer:	Nema	Enclosure :	Totally Enclosed Fan Cooled	Enclosure Typ	
Serial#:	Dx9124123004	Model#:		1 miles	
Service Factor:	1.15	Frame:	445 tefc		
Horsepower/kW:	150	Rated RPM:	1783		
Rated Amps:	175	Rated Voltage:	460		
Phase:	3	Cycles:	60		
Special design:	No				

pe image



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):	Grease
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Cup
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE: Worn Bearings DE make: NTN Insulated: Bearing DE Size: Nu318 No Bearings ODE: Worn Bearings ODE make: NTN Bearing Type: Bearing ODE Size: 6316C3 Ball **Bearings Retainer:** Yes Thermal Protection: Yes Retainer condition: Bad Thermal Protection Type: _

Bearing Type Image



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Bearing Make Image



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Bearing Retainer Image



Thermal Protection





Mechanical Inspection (Continued)

Lubrication Type:	Grease	Thermal Protection device DE:	N/A
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	N/A
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	Full	Grease Cond. DE:	Charred
Grease Amt ODE:	Full	Grease Cond. ODE:	Charred
Seals DE type:	Other	Seals Image:	
Seals DE size:			
Seals DE (inbound) condition :	Bad		
			and the second se
Seals ODE type:	Other	Seals Image 2:	
Seals ODE size:			
Seals ODE (inbound) condition :	Bad		
Shaft damage cause:	None	Shaft Image:	



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Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket:	Ok	Fa	an: Ok		Frame cond	I.: Good
Motor Mount Pos	sition: Horizontal/F	oot mount		Enc	dbell type:	Single piece
Missing parts	?			Endb	ell Image:	
J-Box cover	O-rings	J-Box				HAR
HH cover	Glands	None None				
Other missing p	arts					ing the

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Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Single Piece	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	

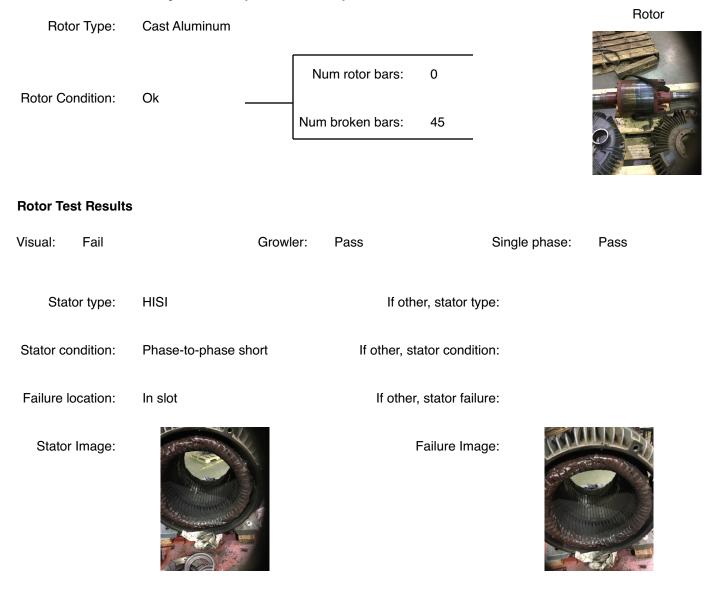
AC Electrical Inspection

Number of leads:	3	Terminal Markings:	1/2/3	
Length of leads:	2'	REF: NEMA Stds Markings Identifie	a. MG 1-2009, Rev. 1- ed By Color:	2010, 2.41-Terminal
Size of leads:	#1	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:	3/8	Connections As Rec	eived: Open	
Lug Condition:	Warn	Т	erminal	Lugs
Lug size:	#1			
Lug Attachment:	Replace			

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AC Electrical Inspection (Continued)



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AC Electrical Inspection (Continued)

M/m dia mandri					I Ducto eti e u	Ma a
Winding color:	Still has color	Winding	j image	Winding Therma	Il Protection:	Yes
Winding condition :	Solid					
Winding Thermal Protection DE:						
Winding Thermal Protection ODE:	_					
Stator test results:	Rewind					
Megs incoming: Bad		Surge incoming:	Bad	Hi-pot in	coming: Ba	ad
Winding Resistance In	coming					
Phase	es A to B	Phases B to C	Phase	es C to A	Resistive imb	alance
Incoming						
Leads/jumpe	ers: Replace		Lead jun	nper Image. :		
If other, leads/jumpe	ers:					5

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Conclusion

Component Failure

Bearings windings fan seals

Cause of Failure

Bearing on the DE WENT DOWN AND CAUSE SEAL RETAINING CAPS AND JRLS TOO GO BAD WHICH CAUSED THE WINDING TOO GO BAD

Comments

Order two new impro seals Order two new bearings (NU318) (6316C3) Order two new carbon slingers Order one new fan Order new junction box an cover

Service Tech name: Michael Jordan

Service Tech signature:

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