

### **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	

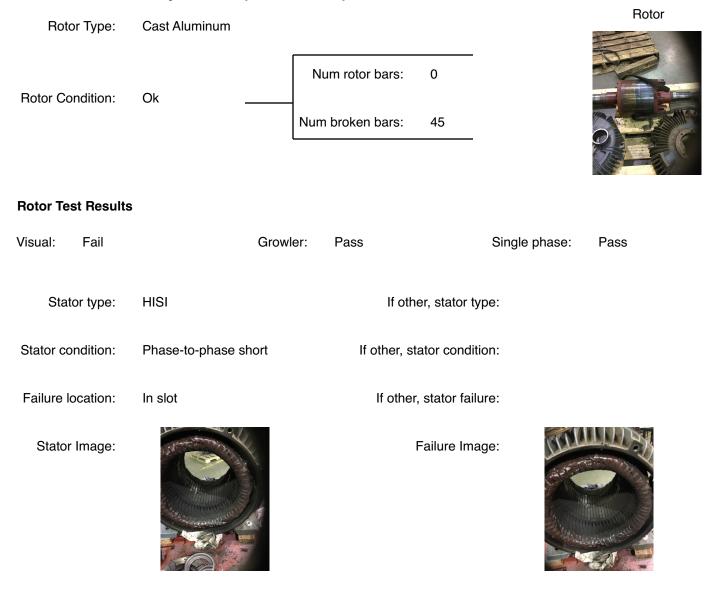
## **AC Electrical Inspection**

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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