

# **Job Information**

Job #:	139158				Date:	February 20, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

### **Customer Information**

Name:	S Chemours Co	Reason:		
Contact:	Donnie White	Motor#:		PO#:
Application:	Radial Load	Special notes:		

### **Name Plate Information**

Manufacturer:	US Motors	Enclosure :	Open Drop Proof (ODP)
Serial#:		Model#:	
Service Factor:		Frame:	445TP
Horsepower/kW:	200	Rated RPM:	1775
Rated Amps:	236	Rated Voltage:	460
Phase:	3	Cycles:	
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):	None
Shaft rotation:	CCW	Contaminant(s) Amt:	None
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			0
Shaft runout(TIR-Inbound):			

Bearings DE:	Worn	Bearings DE make:	NTN
Insulated:	No	Bearing DE Size:	73228
Bearings ODE:	Worn	Bearings ODE make:	NTN
Bearing Type:	Ball	Bearing ODE Size:	6215ZZ
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	_	Thermal Protection Type:	_

#### Bearing Type Image



Bearing Make Image



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**Bearing Retainer Image** 



#### **Thermal Protection**





# **Mechanical Inspection (Continued)**

Lubrication Type:	Oil	Thermal Protection device DE:	_
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	_
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	0	Grease Cond. DE:	Watery
Grease Amt ODE:	Full	Grease Cond. ODE:	Other
Seals DE type:	N/A	Seals Image:	
Seals DE size:			
Seals DE (inbound) condition :			
		Coole Image 2	
Seals ODE type:	N/A	Seals Image 2:	
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	None	Shaft Image:	



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# **Mechanical Inspection (Continued)**

Brg. Image:



Bushings/sleeves image:



Water jacket:	N/A		Fan:	N/A	Frame cor	nd.: Good
Motor Mount Positi	ion: Horizontal/F	oot mount			Endbell type:	Single piece
Missing parts?					Endbell Image:	
J-Box cover	O-rings	🖌 J-Box				
HH cover	Glands	None				
Other missing par	ts					No.

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# **Mechanical Inspection (Continued)**

Air Gap M	eaurements (N/A on Single Piece E	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	

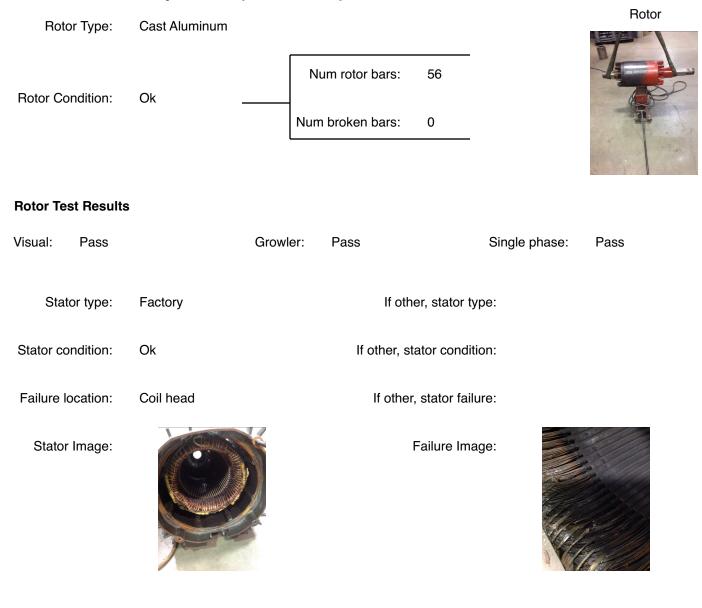
# **AC Electrical Inspection**

Number of leads:	6	Terminal Markings:		
Length of leads:	18	REF: NEMA Stds Markings Identifie	s. MG 1-2009, Rev. 1- ed By Color:	2010, 2.41-Terminal
Size of leads:	2AWG	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:	Standard	Connections As Rec		
Lug Condition:	Good	ТТ	erminal	Lugs
Lug size:	2			
Lug Attachment:	Acceptable			

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### **AC Electrical Inspection (Continued)**



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# **AC Electrical Inspection (Continued)**

Winding color:	Dull black	Winding	g image	Winding Therm	nal Protection:	No	
Winding condition :	Solid						
Winding Thermal Protection DE:							
Winding Thermal Protection ODE:	_						
Stator test results:	Rewind						
Megs incoming: Bad		Surge incoming:	Bad	Hi-pot	incoming:	Bad	
Winding Resistance In	coming						
Phase	es A to B	Phases B to C	Phase	es C to A	Resistive ir	nbalance	
Incoming							
Leads/jumpe	ers: Ok		Lead jur	mper Image. :			
If other, leads/jumpe	ers:						

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### Conclusion

#### **Component Failure**

ODE Bearing and windings

#### **Cause of Failure**

Bearing

#### Comments

ODE Bearing failed causing iron to iron rub which caused windings to overheat and fail

Service Tech name: Erich Sodam

Service Tech signature:



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