

## **Job Information**

Job #:	141697				Date:	February 3, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

# **Customer Information**

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

# Name Plate Information

Manufacturer:	Marathon	Enclosure :	Totally Enclosed Fan Cooled	En
Serial#:	M60015680-1-06/11- 02	Model#:	NVF213TTFN1684 1AAL	
Service Factor:	1.15	Frame:	213TCV	
Horsepower/kW:	7 1/2	Rated RPM:	1770	
Rated Amps:	19.2/9.6	Rated Voltage:	230/460	
Phase:	3	Cycles:	60	
Special design:	No			

#### Enclosure Type image



Nameplate

DE

ODE

F1

F2



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## **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	_	Contaminant(s):	Grease
Shaft rotation:	_	Contaminant(s) Amt:	Cup
Shaft grounding device present?:	No	Contaminant Image:	AR
Type of grounding device:			141 577
Shaft runout(TIR-Inbound):			

Bearings DE:	Worn	Bearings DE make:	NSK
Insulated:	No	Bearing DE Size:	6309Z
Bearings ODE:	Worn	Bearings ODE make:	NSK
Bearing Type:	Ball	Bearing ODE Size:	6208
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:	Grease	Thermal Protection device DE:	_
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	_
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	1/4	Grease Cond. DE:	New
Grease Amt ODE:	1/4	Grease Cond. ODE:	New
Seals DE type:	Slinger	Seals Image:	
Seals DE size:			
Seals DE (inbound) condition :			
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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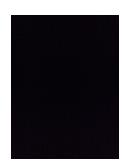


# **Mechanical Inspection (Continued)**

Brg. Image:



Bushings/sleeves image:



Water jacket:	N/A	F	an:	Broken	Frame co	nd.:	Good
Motor Mount Posit	ion: Horizontal/Fo	ot mount			Endbell type:	Sing	le piece
Missing parts?					Endbell Image:		
J-Box cover	O-rings	J-Box					
HH cover	Glands	None None				The state of the s	
Other missing par	rts						A A

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# **Mechanical Inspection (Continued)**

Air Gap Meaurements (N/A on Single Piece Endbell)			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	

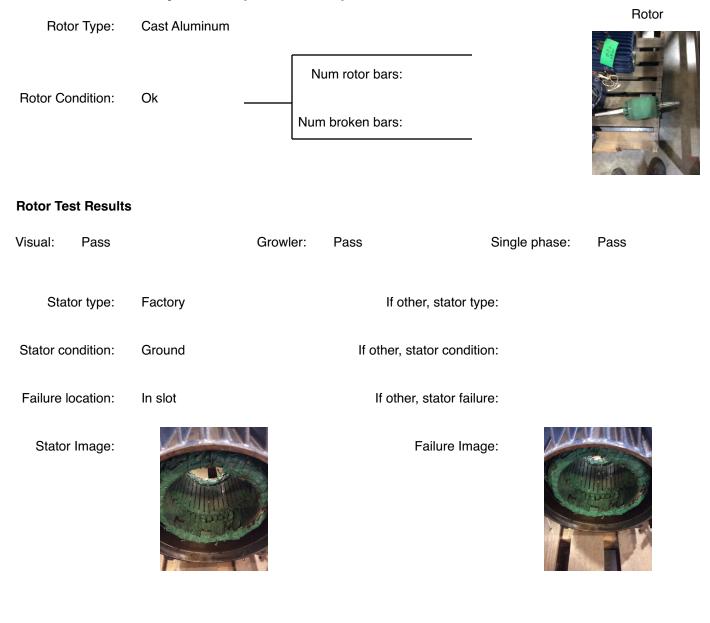
# **AC Electrical Inspection**

Number of leads:	9	Terminal Markings:	1 thru 9	
Length of leads:	9	REF: NEMA Stds Markings Identifie	s. MG 1-2009, Rev. 1- ed By Color:	2010, 2.41-Terminal
Size of leads:	16	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	ceived: 460	
Lug Condition:	_	т	erminal	Lugs
Lug size:				
Lug Attachment:	_			0

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



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# **AC Electrical Inspection (Continued)**

Winding color:	Like new	Winding	g image	Winding Therma	al Protection:	No	
Winding condition :	Solid						
Winding Thermal Protection DE:	_						
Winding Thermal Protection ODE:	_		TY				
Stator test results:	Rewind						
Megs incoming: Good	ł	Surge incoming:	Good	Hi-pot in	icoming: G	bod	
Winding Resistance Inc	coming						
Phase	es A to B	Phases B to C	Phase	es C to A	Resistive imb	alance	
Incoming							
Leads/jumpe	ers: Ok		Lead jun	nper Image. :			
If other, leads/jumpe	ers:						

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### Conclusion

#### **Component Failure**

Bearings worn

#### **Cause of Failure**

Windings overheated and melted top sticks out of slots.

#### Comments

Needs rewound.

Service Tech name: Kell

Kelly Felts

Service Tech signature:

Kelly Hoto

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