

## **Job Information**

Job #:	96538	Date:	February 10, 2020			
Priority:	_	Authorized OT:	No	Authorized by:		

## **Customer Information**

Name:	Future Fuel		Reason:		
Contact:		Motor#:		PO#:	
Application:	_	Special notes:			

## **Name Plate Information**

Manufacturer:	Westinghouse	Enclosure :	Explosion-proof enclosures (EXPL/	Enclosure Type image
Serial#:	7812	Model#:	TBEP	
Service Factor:	1.0	Frame:	184TY	
Horsepower/kW:	5	Rated RPM:	1735	
Rated Amps:	13.8/6.9	Rated Voltage:	230/460	
Phase:	3	Cycles:	60	
Special design:	No			

Nameplate

DE

ODE

F1

F2





Тор











### **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:	
Insulated:	No	Bearing DE Size:	6207ZZ
Bearings ODE:	Worn	Bearings ODE make:	NTN
Bearing Type:	Ball	Bearing ODE Size:	6205ZZ
Bearings Retainer:	Yes	Thermal Protection:	Yes
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:	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:	New
Grease Amt ODE:	Full	Grease Cond. ODE:	New
Seals DE type:	N/A		
Seals DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	N/A		
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: Ok



Endbell Image:

Frame cond.: Good



Motor Mount Position: Horizontal

Horizontal/Foot mount

Endbell type:

Single piece

J-Box cover

HH cover

Missing parts?

O-rings

🔽 None

J-Box



Other missing parts

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## **Mechanical Inspection (Continued)**

Air Gap Meaurements (N/A on Single Piec	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	

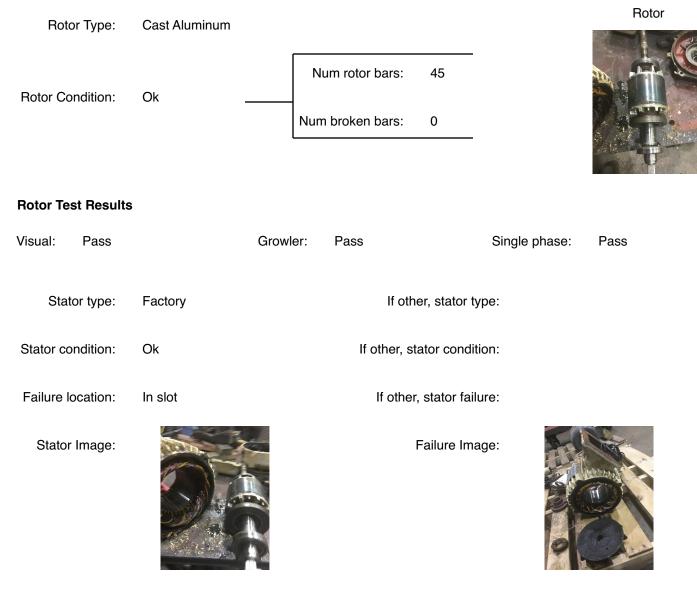
## **AC Electrical Inspection**

Number of leads:	9	Terminal Markings:	1-9	
Length of leads:	6"	REF: NEMA Stds Markings Identifie	. 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	eived: High voltage	2
Lug Condition:	Good	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	g image	Winding Therma	I Protection:	No
Winding condition	n :	Solid		alting to			
Winding Therma Protection DE		_					
Winding Therma Protection ODE		_	0				
Stator test result	s:	Salvageable					
Megs incoming:	Go	od	Surge incoming:	Good	Hi-pot in	coming:	Good
Winding Resistand	ce In	coming					
F	Phase	es A to B	Phases B to C	Phas	es C to A	Resistive in	mbalance
Incoming	0.00		0.00	0.00	I	0.00	
Leads/ju	umpe	ers: Ok		Lea	ad jumper Image. :		
If other, leads/jumpers:							
Mechanical Inspection Inspect bolt holes and fasteners. Validate correct fasteners.						- age	
inspect doit noles a	na ta	Isteriers. Validai	le correct tasteners.				

Bearings Retainer:

Yes

Type of grounding device:Bearing DE Size:6207Shaft runout(TIR-Inbound):Bearing ODE Size:6205

Retainer condition:

Shaft Condition:

n: Good

Good

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# **Mechanical Inspection (Continued)**

Seals DE condition :	Worn	Brg. Seats DE:	Good	
Seals DE type:	N/A	If DE undersized, amt.:	1.3785	
Seals DE size:		Brg. Seats ODE:	Good	
Seals DE (inbound) condition :		If ODE undersized, amt.:	.9848	
Seals ODE condition :	None	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:	2.8349	Foot flatness:	Pass	
Endbell DE insulated?:	No		stomer or EASA spec(<10%	
Endbell ODE size:	2.0473	variation)?		
Endbell ODE insulated?:	_			

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#### Conclusion

**Component Failure** 

**Cause of Failure** 

Comments

Needs new Brake Assembly. Found frosting in De and Ode bearing

Service Tech name:

Robert Wiley

Service Tech signature:

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