

Job Information

Job #:	96142				Date:	October 29, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

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

Name Plate Information

Yes

Manufacturer:		Enclosure :	Totally Enclosed Fan Cooled
Serial#:		Model#:	
Service Factor:	1.15	Frame:	286TDZ
Horsepower/kW:	15/7.5	Rated RPM:	1780
Rated Amps:		Rated Voltage:	460
Phase:		Cycles:	60

Enclosure Type image



Nameplate

Special design:

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):	Oil
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Quart
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			

Shaft runout(TIR-Inbound):

Bearings DE:	Worn	Bearings DE make:	FAG
Insulated:	No	Bearing DE Size:	6311
Bearings ODE:	Worn	Bearings ODE make:	FAG
Bearing Type:	Ball	Bearing ODE Size:	6211
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	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:	_
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	_
Lubrication brand outbound:	Unknown		
Grease Amt DE:	Full	Grease Cond. DE:	Charred
Grease Amt ODE:	Full	Grease Cond. ODE:	Charred
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:



Water jacket: N/A	Ą		Fan:	Ok	Frame co	nd.:	Good
Motor Mount Position	: Horizontal/Fo	ot mount			Endbell type:	Singl	e piece
Missing parts?				Endbell Image:			-
J-Box cover	O-rings	J-Box					
HH cover	Glands	V None			M	1-	
Other missing parts							

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Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Sing	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	

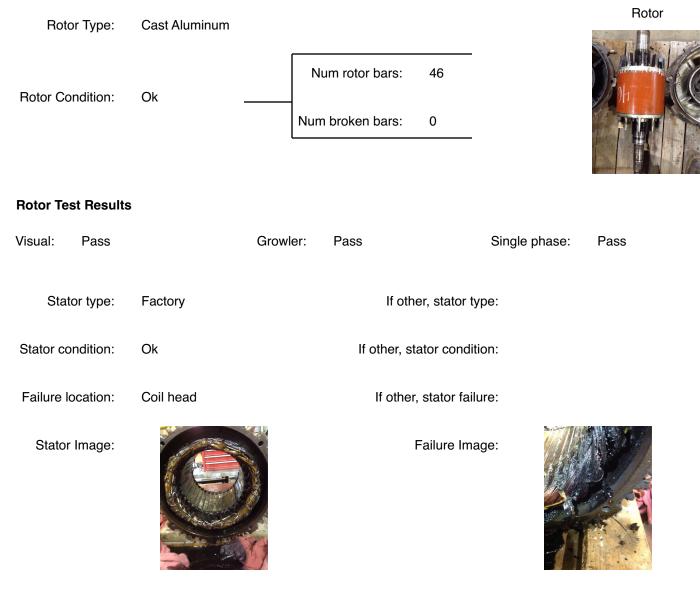
AC Electrical Inspection

Number of leads:	6	Terminal Markings:		
Length of leads:	11 in	REF: NEMA Stds. Markings Identified		2010, 2.41-Terminal
Size of leads:		2-White	5-Black 6-No color assigned 7-No color assigned	P1-No color assigned P2-Brown
Lead condition:	Good	-	8-Red	
Lug type:		Connections As Recei	ived:	
Lug Condition:	Good	Ter	rminal	Lugs
Lug size:				
Lug Attachment:	_			

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AC Electrical Inspection (Continued)



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AC Electrical Inspection (Continued)

Winding color	: Shiny black	Winding	g image	Winding Therma	l Protection: No
Winding condition	: Losing bond				
Winding Therma Protection DE					
Winding Therma Protection ODE					
Stator test results	: Rewind				
Megs incoming:	Good	Surge incoming:	Good	Hi-pot in	coming: Good
Winding Resistanc	e Incoming				
Р	hases A to B	Phases B to C	Phase	es C to A	Resistive imbalance
Incoming	0.00	0.00	0.00		
Leads/ju	mpers: Ok		Lea	d jumper Image. :	
If other, leads/ju	mpers:				
Mechanical I	-				
Inspect bolt holes ar	nd fasteners. Valida	te correct fasteners.			

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	6311
Shaft runout(TIR-Inbound):	0.001	Bearing ODE Size:	6211

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Retainer condition:

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Good



Mechanical Inspection (Continued)

Seals DE condition :	None	Brg. Seats DE:	Good
Seals DE type:	N/A	If DE undersized, amt.:	
Seals DE size:		Brg. Seats ODE:	Good
Seals DE (inbound) condition :		If ODE undersized, amt.:	
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:	4.7249	Foot flatness:	Pass
Endbell DE insulated?:	_		stomer or EASA spec(<10%
Endbell ODE size:	3.9376	variation)?	
Endbell ODE insulated?:	_		

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Conclusion

Component Failure

Cause of Failure

Comments

Windings are blown, the ODE of the shaft is undersized, both bearings show signs of frosting, motor was full of oil indicating that the seal failed. Recommend reconditioning, new bearings, coil rewind, new seal, and ageis ring.

Service Tech name: Chris Wiley

Service Tech signature:

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