

Job Information

Job #:	97146				Date:	August 5, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

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

Name Plate Information

Manufacturer:	Reliance	Enclosure :	Totally Enclosed Fan Cooled
Serial#:		Model#:	
Service Factor:	1.15	Frame:	364TS
Horsepower/kW:	60	Rated RPM:	3565
Rated Amps:	66.3	Rated Voltage:	460
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type 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?:	Yes	Contaminant(s):	Grease
Shaft rotation:	_	Contaminant(s) Amt:	Other
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	6313
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	6313
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

Bearing Type 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:	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:	P



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Mechanical Inspection (Continued)

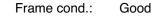
Brg. Image:



Water	jacket:	N/A
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Fan: Ok







Motor Mount Position:	Horizontal/Fo	pot mount		Endbell type:	Single piece
Missing parts?	☐ O-rings ☐ Glands	☐ J-Box ☑ None	Endbell Image:		
Other missing parts Bolt for fan cover					

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Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Single Pie	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	

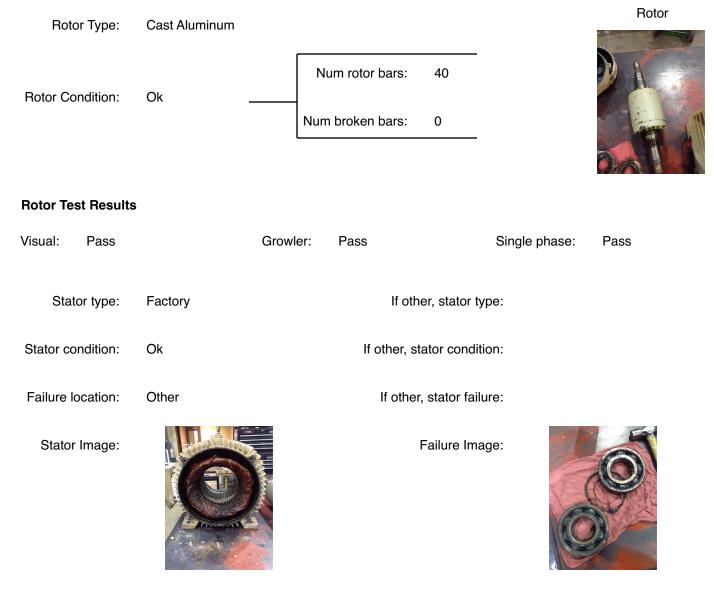
AC Electrical Inspection

Number of leads:	3	Terminal Markings:					
Length of leads:	9 in	REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:					
Size of leads:		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 Re	eceived:				
Lug Condition:	_		Terminal	Lugs			
Lug size:							
Lug Attachment:	_						

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AC Electrical Inspection (Continued)



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AC Electrical Inspection (Continued)

Winding color	: Like new	Winding	g image W	inding Therma	I Protection: No
Winding condition	: Solid		Area and a second s		
Winding Therma Protection DE					
Winding Therma Protection ODE					
Stator test results	: Salvageable				
Megs incoming:	Good	Surge incoming:	Good	Hi-pot in	coming: Good
Winding Resistance	e Incoming				
Pł	nases A to B	Phases B to C	Phases C	to A	Resistive imbalance
Incoming 0	0.00	0.00	0.00		
Leads/ju	-		Lead ju	mper Image. :	
If other, leads/ju	mpers:				
Mechanical Ir	nspection				
Inspect bolt holes an	d fasteners. Validat	te correct fasteners.			
Shaft C	condition: Good		Bearings R	etainer: Ye	es

Type of grounding device:

Shaft runout(TIR-Inbound):

Retainer condition:

: Good

Bearing DE Size: 6313 Bearing ODE Size: 6313

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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:	5.1130	Foot flatness:	Pass
Endbell DE insulated?:	_		stomer or EASA spec(<10%
Endbell ODE size:	5.1126	variation)?	
Endbell ODE insulated?:	_		



Conclusion

Component Failure

Bearings

Cause of Failure

Frosting and metal fatigue

Comments

Recommend reconditioning, new bearings, and aegis ring

Service Tech name: 0

Chris Wiley

Service Tech signature:

Any Delad

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