

Job Information

Job #:	94930				Date:	November 29, 2018
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

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

Name Plate Information

Manufacturer:	Reliance	Enclosure :	Totally Enclosed Fan Cooled
Serial#:		Model#:	24H750-L
Service Factor:		Frame:	L405LPZ16
Horsepower/kW:	75	Rated RPM:	1190
Rated Amps:		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):	None
Shaft rotation:	_	Contaminant(s) Amt:	None
Shaft grounding device present?:	No		
Type of grounding device:			

Shaft runout(TIR-Inbound):

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	3316 A/C3
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	6313 ZZ
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

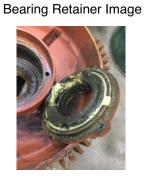
Bearing Type Image



Bearing Make Image



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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:	Other
Grease Amt ODE:	Full	Grease Cond. ODE:	Other
Seals DE type:	Slinger		
Seals DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	N/A		
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	Extensions bent	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: Vertical Flange mount

Endbell type:

Single piece

Missing parts?	
J-Box cover	O-rings

HH cover

Glands

None

J-Box





Other missing parts

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Mechanical Inspection (Continued)

			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:	18"	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	ceived:			
Lug Condition:	Good	-	Terminal	Lugs		
Lug size:						
Lug Attachment:	Acceptable		2/A			

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AC Electrical Inspection (Continued)

Rotor Type:	Cast Aluminum		Rotor
Rotor Condition:	Ok	Num rotor bars: 71 Num broken bars: 0	
Rotor Test Results			
Visual: Pass		Growler: Pass	Single phase: Pass
Stator type:	HISI	If other, stator ty	/pe:
Stator condition:	Ok	If other, stator conditi	ion:
Failure location:	Other	If other, stator fail	ure:
Stator Image:			

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AC Electrical Inspection (Continued)

Winding col	or:	Like new	Winding	ı image	Winding Thermal	I Protection:	No		
Winding conditio	n :	Solid		Carlos de la composición de la composicinde la composición de la composición de la composición de la c					
Winding Therm Protection D		_							
Winding Thermal Protection ODE:									
Stator test resul	ts:	Salvageable							
Megs incoming:	Go	od	Surge incoming:	Good	Hi-pot ind	coming:	Good		
Winding Resistan	ice In	coming							
	Phase	es A to B	Phases B to C	Phase	es C to A	Resistive in	mbalance		
Incoming	83.32	26	83.638	83.22	25	0.4			
Leads/jumpers: Ok									
If other, leads/	If other, leads/jumpers:								

Mechanical Inspection

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Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Other	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	3316 A/C3
Shaft runout(TIR-Inbound):	.032"	Bearing ODE Size:	6313 ZZ
Retainer condition:	Good		



Mechanical Inspection (Continued)

Seals DE condition :	None	Brg. Seats DE:	Good	
Seals DE type:	Slinger	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:	6.6939	Foot flatness:	Pass	
Endbell DE insulated?:	No		Does Air Gap Meet Customer or EASA spec(<10% variation)?	
Endbell ODE size:	5.5113	variation)?		
Endbell ODE insulated?:	No	_		

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Conclusion

Component Failure

Bearings worn, DE shaft extension bent .032"

Cause of Failure

Comments

Bearings contaminated with water and dirt

Service Tech name:

Lynn McDonald

Service Tech signature:

Lynn Mc Donald

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