

Job Information

Job #:	94533				Date:	August 3, 2018
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

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

Name Plate Information

Manufacturer:	Reliance	Enclosure :	Totally Enclosed Fan Cooled	Enclosure
Serial#:	89MN444826	Model#:	P44G4826A	
Service Factor:	1.0	Frame:	445T	
Horsepower/kW:	150 Hp	Rated RPM:	1785	
Rated Amps:	170	Rated Voltage:	460	4.31
Phase:	3	Cycles:	60	
Special design:	No			

Enclosure Type image





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):	Dirt
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Other
Shaft grounding device present?:	Yes	Contaminant Image:	
Type of grounding device:	Aegis		
Shaft runout(TIR-Inbound):	.002		
Bearings DE:	Worn	Bearings DE make:	Коуо

Insulated:	No	Bearing DE Size:	6318 ZZ
Bearings ODE:	Worn	Bearings ODE make:	Коуо
Bearing Type:	Ball	Bearing ODE Size:	6318 ZZ
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

Bearing Type Image



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Bearing Retainer Image



Thermal Protection

Not Available





Mechanical Inspection (Continued)

Lubrication Type:	Grease	Thermal Protection device DE:	_
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	_
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	Full	Grease Cond. DE:	Other
Grease Amt ODE:	Full	Grease Cond. ODE:	Other
Seals DE type:	N/A	Seals Image:	
Seals DE size:			Not Available
Seals DE (inbound) condition :			
Seals ODE type:	N/A	Seals Image 2:	Not
Seals ODE size:			Available
Seals ODE (inbound) condition :			
Shaft damage cause:	Other	Shaft Image:	



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Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: N/A	Fan: Broken	Frame co	nd.: Good
Not Available			
Motor Mount Position: Horizontal/Fo	pot mount	Endbell type:	Single piece
Missing parts?		Endbell Image:	
J-Box cover O-rings	J-Box		
HH cover Glands	None None		
Other missing parts			

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Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Single P	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:	12"	REF: NEMA Std Markings Identif	ls. MG 1-2009, Rev. 1- ied By Color:	2010, 2.41-Terminal
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:	Worn	4-Yellow	8-Red	
Lug type:		Connections As Re	eceived:	
Lug Condition:	_		Terminal	Lugs
Lug size:			Not	
Lug Attachment:	_	Av	ailable	-

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AC Electrical Inspection (Continued)

Rotor Type:	Cast Aluminum	•		Rotor	
Rotor Condition:	Ok .		Num rotor bars: m broken bars:		
Rotor Test Results					
Visual: Pass		Growler:	Pass	Single phase: Pass	
Stator type:	Factory		If othe	er, stator type:	
Stator condition:	Ok		lf other, sta	ator condition:	
Failure location:	In slot		If other,	, stator failure:	
Stator Image:			F	⁼ ailure Image: Not Available	

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AC Electrical Inspection (Continued)

Winding	color:	Like new	Winding	g image	Winding Therma	Protection:	Yes
Winding cond	ition :	Solid	1	0		Ν	lot
Winding The Protection		Good			L.	Avai	ilable
Winding The Protection		_					
Stator test re	sults:	Salvageable					
Megs incoming:	Goo	d	Surge incoming:	Good	Hi-pot ind	coming: G	Good
Winding Resis	tance In	coming					
	Phas	es A to B	Phases B to C	Phase	es C to A	Resistive im	balance
Incoming	39.8	52	40.088	40.09	96	0.6	
Lea	ds/jump	ers: Ok		Lead jun	nper Image. :		
lf other, lea	ds/jump	ers:				Nc Availa	

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Conclusion

Component Failure

DE & OD EB's Worn, DE shaft outer seal worn

Cause of Failure

Comments

Leads had high resistance connection, De & ODE EB's need sleeves, DE outer seal worn, ODE sleeve is insulated DE shaft outer seal surface is worn. ODE fan cover bolts broken off in EB (4). New Aegis ring (4.121")

Service Tech name:

Lynn McDonald

Service Tech signature:

Lyn Mel) in det

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