

Job Information

Job #:	96393				Date:	December 30, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	QLL SEVICES		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	Baldor	Enclosure :	Totally Enclosed Fan Cooled
Serial#:	Z0402240098	Model#:	
Service Factor:	1.15	Frame:	
Horsepower/kW:	20	Rated RPM:	1760
Rated Amps:	51-48/24	Rated Voltage:	208-230/460
Phase:	3	Cycles:	60

Enclosure Type image



Nameplate

Special design:

DE

No

ODE

F1

F2

Тор



ALL CONTRACTORS AND ALL CO





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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:	Bi-directional	Contaminant(s) Amt:	Other
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			an dealer a

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	6309
Bearings ODE:	Worn	Bearings ODE make:	NSK
Bearing Type:	Ball	Bearing ODE Size:	6208
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

Bearing Type Image



Bearing Make Image



Bearing Retainer Image



Thermal Protection

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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 Image:	
Seals DE size:	1.6892		0
Seals DE (inbound) condition :	Bad		
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	I/A		Fan:	Broken	Frame co	nd.: Good	
Motor Mount Positio	on: Horizontal/F	oot mount			Endbell type:	Single piece	
Missing parts?				Endbell Image:			
J-Box cover	O-rings	J-Box					
HH cover	Glands	V None					
Other missing part	S						

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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:	9	Terminal Markings	:	
Length of leads:	7 in	REF: NEMA St Markings Ident	ds. MG 1-2009, Rev. 1- ified 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:	Good	4-Yellow	8-Red	
Lug type:		Connections As F	Received:	
Lug Condition:	Good		Terminal	Lugs
Lug size:				
Lug Attachment:	_			

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AC Electrical Inspection (Continued)

Rotor	Туре:	Cast Aluminum					Rotor
Rotor Conc	dition:	Ok		Nu	um rotor bars:		
Rotor Condition:		ÖK	Num broke		broken bars:		
Rotor Test	Results						
Visual: I	Pass		Grow	ler:	Pass	Single phase:	Pass
Stator	type:	Factory			If other, stator	type:	
Stator condition:		Ok	If other, stator condition:				
Failure location:		In slot			If other, stator fa	ilure:	

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AC Electrical Inspection (Continued)

Winding color:	Still has color	Winding	g image	Winding The	rmal Protectior	n: No
Winding condition :	Solid					
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:	_					
Stator test results:	Salvageable					
Megs incoming: Go	bod	Surge incoming:	Good	Hi-po	ot incoming:	Good
Winding Resistance Incoming						
Phase	es A to B	Phases B to C	Phase	es C to A	Resistive	imbalance
Incoming 0.00		0.00	0.00			
Leads/jumpe	ers: Ok		Lead	d jumper Imag	je. :	
If other, leads/jumpe	ers:					
Mechanical Inspection						R
Inspect bolt holes and fa	asteners. Validat	te correct fasteners.				
Shaft Conc	dition: Good		Bearing	s Retainer:	Yes	
Type of grounding de	evice:		Bearin	ng DE Size:	6309	

Bearing ODE Size:

6208

Shaft runout(TIR-Inbound):

Retainer condition:

: Good

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Mechanical Inspection (Continued)

Seals DE condition :	Brittle	Brg. Seats DE:	Good
Seals DE type:	Slinger	If DE undersized, amt.:	
Seals DE size:	1.6892	Brg. Seats ODE:	Good
Seals DE (inbound) condition :	Bad	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:	Bad	Foot/Flange condition:	Ok
Endbell DE size:	3.9387 BAD	Foot flatness:	Pass
Endbell DE insulated?:	_		stomer or EASA spec(<10%
Endbell ODE size:	3.1510 BAD	variation)?	
Endbell ODE insulated?:	_		

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Conclusion

Component Failure

Cause of Failure

Comments

Fan is broken, both bearings show signs of contamination, both end bells are over sized. Recommend reconditioning, new fan, new bearings, new slinger seal, and machine work on both end bells.

Chris Wiley Service Tech name:

Service Tech signature:

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