

## **Job Information**

Job #:	96240				Date:	December 3, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

## **Customer Information**

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

## **Name Plate Information**

Manufacturer:	Derrick	Enclosure :	Totally Enclosed Non-Ventilated
Serial#:	F-1799	Model#:	F-5-36440-6
Service Factor:	1.10	Frame:	
Horsepower/kW:	1.5	Rated RPM:	3600
Rated Amps:	2.6/1.3	Rated Voltage:	440
Phase:	3	Cycles:	60
Special design:	No		

### Enclosure Type image



Тор

Nameplate

DE

ODE

F1

F2



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### MILLINGTON, TN LITTLE ROCK, AR

## **Mechanical Inspection**

### Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	None
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	No		
Type of grounding device:			

Shaft runout(TIR-Inbound):

FAG	Bearings DE make:	Bearings DE:
6315	Bearing DE Size:	Insulated:
FAG	Bearings ODE make:	Bearings ODE:
6315	Bearing ODE Size:	Bearing Type:
Yes	Thermal Protection:	Bearings Retainer:
_	Thermal Protection Type:	Retainer condition:

### Bearing Type Image



7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301 Bearing Make Image



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### nermai Protection Type.

### **Bearing Retainer Image**



### **Thermal Protection**





# **Mechanical Inspection (Continued)**

Lubrication Type:	Grease	Thermal Protection device DE:	_
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	_
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	Full	Grease Cond. DE:	New
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:



Bushings/sleeves image:



Water	jacket:	N/A
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Fan:

N/A

Frame cond.: Good



Motor Mount Position: Horizontal/Foot mount Missing parts? Endbell Image: J-Box cover O-rings J-Box

Endbell type:

Single piece





Glands Other missing parts

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HH cover

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**N**one



## **Mechanical Inspection (Continued)**

Air Gap Meaurements (N/A on Single	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:		REF: NEMA Stds. MG 1-2009, Rev. 1- Markings Identified By Color:	2010, 2.41-Terminal
Size of leads:		1-Blue5-Black2-White6-No color assigned3-Orange7-No color assigned	P1-No color assigned P2-Brown
Lead condition:	_	4-Yellow 8-Red	
Lug type:		Connections As Received:	
Lug Condition:	_	Terminal	Lugs
Lug size:			
Lug Attachment:	_		

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## MILLINGTON, TN LITTLE ROCK, AR

# **AC Electrical Inspection (Continued)**

Rotor Type:	Cast Aluminum		Rotor
Rotor Condition:	Ok	Num rotor bars: Num broken bars:	
<b>Rotor Test Results</b> Visual: Pass	Growle	er: Pass	Single phase: Pass
Stator type:	Factory	If other, stator ty	pe:
Stator condition:	Ok	If other, stator conditi	on:
Failure location:	In slot	If other, stator failu	ıre:
Stator Image:		Failure Ima	ge:

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### MILLINGTON, TN LITTLE ROCK, AR

# **AC Electrical Inspection (Continued)**

Winding color	: Like new	Winding	g image	Winding Thermal Pro	otection: Yes
Winding condition	: Solid	1			Not
Winding Therma Protection DE		18			Available
Winding Therma Protection ODE			S#		
Stator test results	: Salvageable				
Megs incoming:	Good	Surge incoming:	Good	Hi-pot incom	ning: Good
Winding Resistanc	e Incoming				
Р	hases A to B	Phases B to C	Phase	es C to A Re	esistive imbalance
Incoming (	0.00	0.00	0.00	0.	.00
Leads/ju	mpers: Ok		Leac	d jumper Image. :	
lf other, leads/ju	mpers:				Not Available

# **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Worn	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	6315
Shaft runout(TIR-Inbound):		Bearing ODE Size:	6315

Retainer condition:

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# **Mechanical Inspection (Continued)**

Seals DE condition :	None	Brg. Seats DE:	Undersized	
Seals DE type:	N/A	If DE undersized, amt.:	2.9502	
Seals DE size:		Brg. Seats ODE:	Undersized	
Seals DE (inbound) condition :		If ODE undersized, amt.:	2.9501	
Seals ODE condition :	None	Shaft damage:	Salvageable	
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:	6.3008	Foot flatness:	Pass	
Endbell DE insulated?:	No		Does Air Gap Meet Customer or EASA spec(<10% variation)?	
Endbell ODE size:	6.3008	variation)?		
Endbell ODE insulated?:	No			

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### Conclusion

**Component Failure** 

**Cause of Failure** 

Comments

DE and ODE shaft bearing fit bad.Both bearings have false brinelling

Service Tech name: Ro

Robert Wiley

Service Tech signature:

Kobers Wiley

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