

#### MILLINGTON, TN LITTLE ROCK, AR

#### **Job Information**

Job #:	97038				Date:	July 13, 2020
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-2091	Model#:	F-5-36-460/480 6-01
Service Factor:	1.0	Frame:	
Horsepower/kW:	1.5	Rated RPM:	3600
Rated Amps:	2.5	Rated Voltage:	460
Phase:	3	Cycles:	60

#### Enclosure Type image



Nameplate

Special design:

DE

No

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?:	No	Contaminant(s):	None
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	No	Contaminant Image:	C.
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE: Worn Bearings DE make: NACHI Insulated: Bearing DE Size: 6315 C3 No Bearings ODE: Worn Bearings ODE make: NACHI Bearing Type: Bearing ODE Size: 6315 C3 Ball **Bearings Retainer:** Yes Thermal Protection: Yes Retainer condition: Thermal Protection Type: \_

#### Bearing Type Image



**Bearing Make Image** 



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# **Mechanical Inspection (Continued)**

Lubrication Type:	Other	Thermal Protection device DE:	_
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	_
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	0	Grease Cond. DE:	New
Grease Amt ODE:	0	Grease Cond. ODE:	New
Seals DE type:	Slinger		
Seals DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	Slinger		
Seals ODE size:			
Seals ODE (inbound) condition			
Shaft damage cause:	Keyway bad	Shaft Image:	



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#### **MILLINGTON, TN** LITTLE ROCK, AR

Frame cond.:

#### **Mechanical Inspection (Continued)**

Brg. Image:



Bushings/sleeves image:



Water jacket: Ok



Fan:



Ok



Good

Endbell type:

Single piece



Missing parts?

Other missing parts

Motor Mount Position:



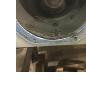
O-rings HH cover

J-Box **N**one Glands

Horizontal/Foot mount

Endbell Image:







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## **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 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	leceived:	
Lug Condition:	Good		Terminal	Lugs
Lug size:				
Lug Attachment:	_			

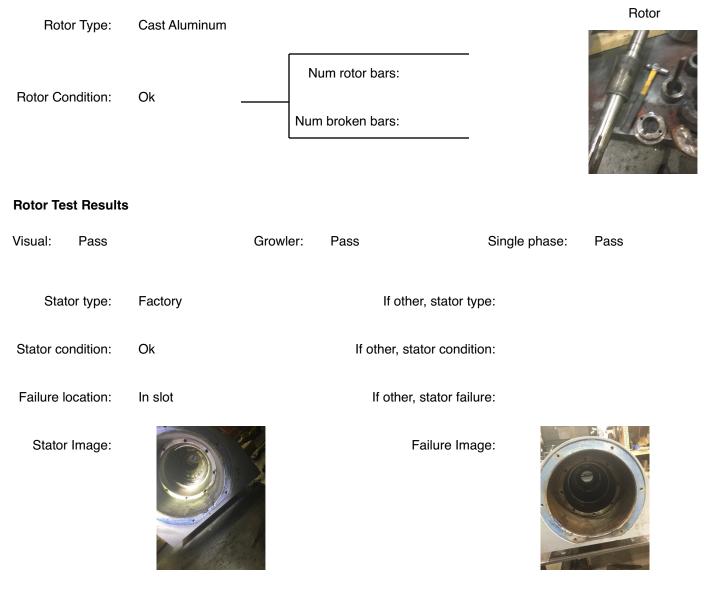
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### MILLINGTON, TN LITTLE ROCK, AR

#### **AC Electrical Inspection (Continued)**



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#### MILLINGTON, TN LITTLE ROCK, AR

#### **AC Electrical Inspection (Continued)**

Winding color:	Like new	Winding	g image	Winding Therma	Protection:	Yes
Winding condition :	Solid					
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:	_					
Stator test results:	Salvageable					
Megs incoming: Go	bod	Surge incoming:	Good	Hi-pot in	coming: C	Good
Winding Resistance In	coming					
Phas	es A to B	Phases B to C	Phase	es C to A	Resistive im	balance
Incoming 0.00		0.00	0.00		0.00	
Leads/jump	ers: Ok					
If other, leads/jump	ers:					

# **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Damaged	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	315
Shaft runout(TIR-Inbound):		Bearing ODE Size:	6315

Retainer condition:

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# **Mechanical Inspection (Continued)**

Seals DE condition :	Worn	Brg. Seats DE:	Undersized
Seals DE type:	N/A	If DE undersized, amt.:	2.9497
Seals DE size:		Brg. Seats ODE:	Undersized
Seals DE (inbound) condition :		If ODE undersized, amt.:	2.9495
Seals ODE condition :	Worn	Shaft damage:	Replace
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:	6.3051	Foot flatness:	Pass
Endbell DE insulated?: No		Does Air Gap Meet Customer or EASA s	
Endbell ODE size:	6.3044	variation)?	
Endbell ODE insulated?:	_		

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#### Conclusion

**Component Failure** 

**Cause of Failure** 

Comments

Both bearing housing fit bad Both bearing hubs are bad .#1 and #2 shaft bad keyway and snap ring grove also one shoulder bad on #1 end .Both spacers and weights are bad

Service Tech name:

**Robert Wiley** 

Service Tech signature:

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