

## **Job Information**

Job #:	94380				Date:	June 22, 2018
Priority:	_	Authorized OT:	No	Authorized by:		

## **Customer Information**

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

## **Name Plate Information**

Manufacturer:	Leeson	Enclosure :	Totally Enclosed Fan Cooled
Serial#:	C447T17FB7C	Model#:	50004
Service Factor:	1.15	Frame:	447T
Horsepower/kW:	200	Rated RPM:	1790
Rated Amps:	22.3	Rated Voltage:	460
Phase:	3	Cycles:	60
Special design:	No		

#### Enclosure Type image



Тор

Nameplate

DE

ODE

F1

F2



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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:	Full
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):	.001		

Bearings DE:	Worn	Bearings DE make:	Other
Insulated:	No	Bearing DE Size:	6319
Bearings ODE:	Worn	Bearings ODE make:	NSK
Bearing Type:	Ball	Bearing ODE Size:	6317Z
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

#### Bearing Type Image



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#### **Thermal Protection**





# **Mechanical Inspection (Continued)**

Lubrication Type:	Grease	Thermal Protection device DE:	N/A
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	N/A
Lubrication brand outbound:	Unknown		
Grease Amt DE:	Full	Grease Cond. DE:	Charred
Grease Amt ODE:	Full	Grease Cond. ODE:	Charred
Seals DE type: Seals DE size: Seals DE (inbound) condition :	N/A	Seals Image:	
Seals ODE type: Seals ODE size: Seals ODE (inbound) condition :	N/A	Seals Image 2:	

Shaft damage cause:

None

Shaft Image:



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

Brg. Image:



Bushings/sleeves image:

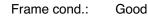


Water jacket: N/A



Fan: Ok







Motor Mount Position: Horizontal

Horizontal/Foot mount

J-Box

Missing parts?

J-Box cover O-rings

HH cover

Glands None

Other missing parts

Endbell type: Single piece

Endbell Image:



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# **Mechanical Inspection (Continued)**

Air Gap Meaurements (N/A on Single Piece Endbell)			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	

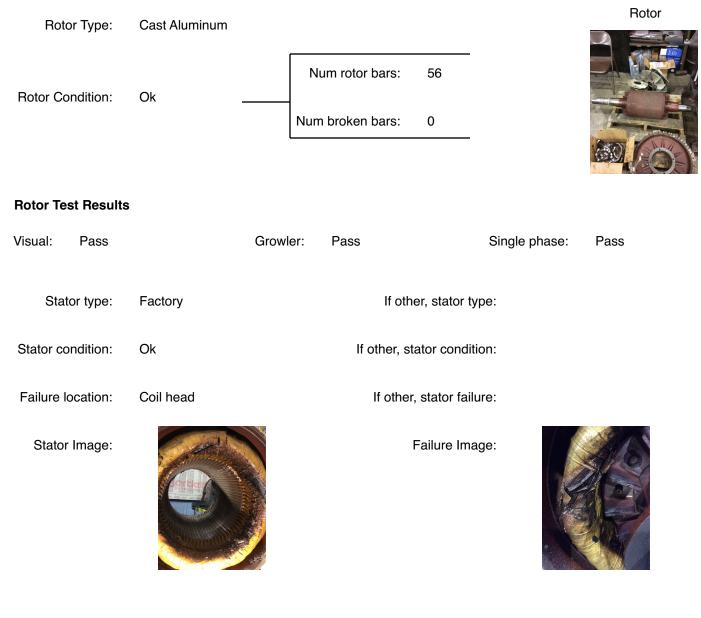
# **AC Electrical Inspection**

Number of leads:	12	Terminal Markings:				
Length of leads:	12"	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:	Bad	4-Yellow	8-Red			
Lug type:		Connections As Re	ceived:			
Lug Condition:	_	٦	Terminal	Lugs		
Lug size: Lug Attachment:	_					

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



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# **AC Electrical Inspection (Continued)**

Winding color:	Dull black	Winding	g image	Winding Therma	I Protection:	No
Winding condition :	Charred	10			Ser	
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:	_				U.	
Stator test results:	Rewind					
Megs incoming: Bad		Surge incoming:	Bad	Hi-pot in	coming: Ba	ad
Winding Resistance In	coming					
Phase	es A to B	Phases B to C	Phase	es C to A	Resistive imb	alance
Incoming						
Leads/jumpe	ers: Replace		Lead jur	nper Image. :		
If other, leads/jumpe	ers:					

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### Conclusion

#### **Component Failure**

Coils

#### Cause of Failure

Coil failed

#### Comments

Windings failed on the coil edge. Also the grease inside the stator was contaminated with dirt particles.

Service Tech name: Terre

**Terrence Holland** 

Service Tech signature:

Hollo

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