

## **Job Information**

Job #:	96956				Date:	June 16, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

### **Customer Information**

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

### **Name Plate Information**

Manufacturer:	BARTEC VARNOST	Enclosure :	Totally Enclosed Fan Cooled
Serial#:	200941670	Model#:	3ktc180m2
Service Factor:	1.15	Frame:	
Horsepower/kW:	26KW	Rated RPM:	3525
Rated Amps:	41	Rated Voltage:	480
Phase:	3	Cycles:	60
Special design:	No		

#### Enclosure Type image



Nameplate

ODE

F2





Тор

DE

















### **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?:	Yes		
Type of grounding device:	Aegis		
Shaft runout(TIR-Inbound):	.001		
Bearings DE:	Worn	Bearings DE make:	FAG
Insulated:	No	Bearing DE Size:	63102zl038
Bearings ODE:	Worn	Bearings ODE make:	FAG
Bearing Type:	Ball	Bearing ODE Size:	63102zl038
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	Good	Thermal Protection Type:	Thermocouple

#### Bearing Type Image



Bearing Make Image



#### ke Image Be





#### **Thermal Protection**



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# **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:	New
Seals DE type:	Isolators	Seals Image:	
Seals DE size:	50x72x8		1
Seals DE (inbound) condition :	Good		
		Seals Image 2:	
Seals ODE type:	Isolators		
Seals ODE size:	50x72x8		
Seals ODE (inbound) condition :	Good		O



Shaft Image:

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Shaft damage cause:

CENTRAL ARKANSAS 6812 Lindsey Rd. Little Rock, AR 72206 Phone 501-375-9178 Fax 501-375-4254

None



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

Brg. Image:

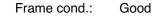


Water jacket: N/	A
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Fan: Ok



Endbell Image:





Motor Mount Position: Ver

Vertical Flange mount

O-rings

Glands

J-Box

**V** None

Endbell type:

Single piece



Other missing parts

Missing parts?

J-Box cover

HH cover

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## **Mechanical Inspection (Continued)**

Air Gap Meaurements (N/A on Single Pie	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:	6	Terminal Markings:		
Length of leads:	8"	REF: NEMA Sto Markings Identif	ls. MG 1-2009, Rev. 1- ïed By Color:	2010, 2.41-Terminal
Size of leads:	10 awg	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:	Copper	Connections As Re	eceived:	
Lug Condition:	Good		Terminal	Lugs
Lug size:	Same			
Lug Attachment:	_			

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# **AC Electrical Inspection (Continued)**

Rotor Type: Rotor Condition:	Cast Aluminum	Num rotor bars: 28		Rotor
Rotor Test Results		Num broken bars: 0		Q
Visual: Pass	Grow	ler: Pass	Single phase:	Pass
Stator type:	Factory	If other, stator ty	/pe:	
Stator condition:	Ok	If other, stator condit	ion:	
Failure location:	Other	If other, stator fail	ure:	
Stator Image:				

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

Winding color:	Painted	Winding	g image	Winding Thermal	Protection:	Yes
Winding condition :	Solid					
Winding Thermal Protection DE:	Good					A REAL ST
Winding Thermal Protection ODE:	_					
Stator test results:	Salvageable					
Megs incoming: Go	od	Surge incoming:	Good	Hi-pot ind	coming: G	ood
Winding Resistance Inc	coming					
Phase	es A to B	Phases B to C	Phase	s C to A	Resistive im	balance
Incoming						
Leads/jumpe	ers: Ok					
If other, leads/jumpe	ers:					

## **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:	Aegis	Bearing DE Size:	63102zl038
Shaft runout(TIR-Inbound):	0.001	Bearing ODE Size:	63102zl038
Retainer condition:	Good		

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# **Mechanical Inspection (Continued)**

Seals DE condition :	Worn	Brg. Seats DE:	Good
Seals DE type:	Isolators	If DE undersized, amt.:	
Seals DE size:	Same	Brg. Seats ODE:	Good
Seals DE (inbound) condition :	Good	If ODE undersized, amt.:	
Seals ODE condition :	Worn	Shaft damage:	ОК
Seals ODE type:	Isolators		
Seals ODE size:	Same	Bushings/sleeves DE:	Ok
Seals ODE (inbound) condition :	Good	Bushings/sleeves ODE:	Ok
Endbell fits/damage:	Good	Foot/Flange condition:	Ok
Endbell DE size:	4.3316	Foot flatness:	Pass
Endbell DE insulated?:	No	Does Air Gap Meet Cu	stomer or EASA spec(<10%
Endbell ODE size:	4.3316	variation)?	
Endbell ODE insulated?:	No	—	

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### Conclusion

#### **Component Failure**

Bearings

#### Cause of Failure

Normal wear

#### Comments

Service Tech name: Trevor Hall

Service Tech signature:



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