

Job Information

Job #:	95015				Date:	December 17, 2018
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	Name: Aim			
Contact:		Motor#:		PO#:
Application:	Radial Load	Special notes:		

Name Plate Information

Manufacturer:	Siemens	Enclosure :	Totally Enclosed Non-Ventilated	Enclosure Type image
Serial#:	K781604301096	Model#:	1pp50904aa99zn0 1	03
Service Factor:	0.81	Frame:		
Horsepower/kW:	1.8 kw	Rated RPM:	1705	
Rated Amps:	4.8	Rated Voltage:	380-460	
Phase:	3	Cycles:	60	
Special design:	No			

ge



Nameplate

DE

ODE

F1

F2















WEST TENNESSEE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	Dirt
Shaft rotation:	CCW	Contaminant(s) Amt:	Other
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):	0.001		

Bearings DE:	Worn	Bearings DE make:	Коуо
Insulated:	No	Bearing DE Size:	6205zc3
Bearings ODE:	Worn	Bearings ODE make:	Коуо
Bearing Type:	Ball	Bearing ODE Size:	6004zc3
Bearings Retainer:	No	Thermal Protection:	No
Retainer condition:	_	Thermal Protection Type:	_

Bearing Type Image



Bearing Make Image

nage Bearl

Bearing Retainer Image

Thermal Protection





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:	0	Grease Cond. DE:	Hard
Grease Amt ODE:	0	Grease Cond. ODE:	Hard
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		

VEST TENNESSE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301



Mechanical Inspection (Continued)

Brg. Image:



Water jacket: N//	Ą		Fan:	Broken	Frame co	nd.:	Good
Motor Mount Position	: Other				Endbell type:	Sing	le piece
Missing parts?				Endbell Image:			
J-Box cover	O-rings	J-Box					
HH cover	Glands	Vone					
Other missing parts							

VEST TENNESSE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301



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:	3 inches	REF: NEMA Stds Markings Identifi	s. MG 1-2009, Rev. 1- ed By Color:	2010, 2.41-Terminal
Size of leads:	14 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	ceived: Y	
Lug Condition:	Good	-	Terminal	Lugs
Lug size:	14 AWG			
Lug Attachment:	Acceptable			

WEST TENNESSEE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301



AC Electrical Inspection (Continued)

Rotor Type:	Cast Aluminum			Rotor
Rotor Condition:	Ok	Num rotor bars: 28 Num broken bars: 0		
Rotor Test Results Visual: Pass	Grow	ler: Pass	Single phase:	Pass
Stator type:	Factory	If other, stator ty	pe:	
Stator condition:	Ok	If other, stator conditi	on:	
Failure location:	Other	If other, stator failu	ire:	
Stator Image:				

VEST TENNESSE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301



AC Electrical Inspection (Continued)

Winding color:	Like new	Winding	g image Wi	nding Therma	I Protection	: No
Winding condition :	Solid					
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:	_	1				
Stator test results:	Salvageable					
Megs incoming:	Good	Surge incoming:	Good	Hi-pot in	coming:	Good
Winding Resistance Incoming						
Pha	ases A to B	Phases B to C	Phases C	to A	Resistive	imbalance
Incoming 12	9	13	12.9		0.1	
Leads/jum	npers: Ok		Lead jur	mper Image. :		
If other, leads/jumpers:						
Mechanical Inspection						
Inspect bolt holes and	fasteners. Valida	te correct fasteners.			1.94	
Shaft Co	ndition: Good		Bearings Re	etainer: No	D	

Shaft Condition:GoodBearings Retainer:NoType of grounding device:Bearing DE Size:6205zc3Shaft runout(TIR-Inbound):0.001Bearing ODE Size:6004zc3

Retainer condition:

WEST TENNESSEE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301 CENTRAL ARKANSAS 6812 Lindsey Rd. Little Rock, AR 72206 Phone 501-375-9178 Fax 501-375-4254

_



Mechanical Inspection (Continued)

Seals DE condition :	None	Brg. Seats DE:	Good
Seals DE type:	N/A	If DE undersized, amt.:	
Seals DE size:		Brg. Seats ODE:	Good
Seals DE (inbound) condition :		If ODE undersized, amt.:	
Seals ODE condition :	Worn	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:	Good	Foot/Flange condition:	Ok
Endbell DE size:	2.0478	Foot flatness:	N/A
Endbell DE insulated?:	No		stomer or EASA spec(<10%
Endbell ODE size:	1.8510	variation)?	
Endbell ODE insulated?:	No		

VEST TENNESSE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301



Conclusion

Component Failure

Bearings and fan coming apart

Cause of Failure

No lubrication and fan has spun on the shaft causing damage

Comments

Service Tech name: Trevor Hall

Service Tech signature:



WEST TENNESSEE 7030 Ryburn Drive Millington, TN 38053 Phone 901-873-5300 Fax 901-873-5301