

Job Information

Job #:	96541				Date:	February 10, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

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

Name Plate Information

Manufacturer:	Toshiba	Enclosure :	Totally Enclosed Fan Cooled
Serial#:	96806430	Model#:	B0752FLG3UM01
Service Factor:	1.15	Frame:	365TS
Horsepower/kW:	75	Rated RPM:	3545
Rated Amps:	178/89	Rated Voltage:	230/460
Phase:	3	Cycles:	60

Enclosure Type image



Nameplate

Special design:

DE

No

ODE

F1

F2

Тор







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?:	No	Contaminant(s):	None
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	No		
Type of grounding device:			

Shaft runout(TIR-Inbound):

Bearings DE:	Fell Apart	Bearings DE make:	FAG	
Insulated:	No	Bearing DE Size:	6312	
Bearings ODE:	Worn	Bearings ODE make:	FAG	
Bearing Type:	Ball	Bearing ODE Size:	6312	
Bearings Retainer:	Yes	Thermal Protection:	No	
Retainer condition:	Good	Thermal Protection Type:	_	
Bearing Type Image	Bearing Make Image	Bearing Retainer Image		Thermal Protection



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



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:	N/A	Grease Cond. DE:	Other
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:	Extensions bent	Shaft Image:	ŝ



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



Mechanical Inspection (Continued)

Brg. Image:



Water jacket: N/A

Motor

Fan: Ok



Frame cond.: Good

Motor Mount Position:	Horizontal/F	oot mount	
Missing parts?			Endbell Image:
J-Box cover	O-rings	J-Box	
HH cover	Glands	None	
Other missing parts			

Bolts for J-box cover are missing



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



Single piece









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	

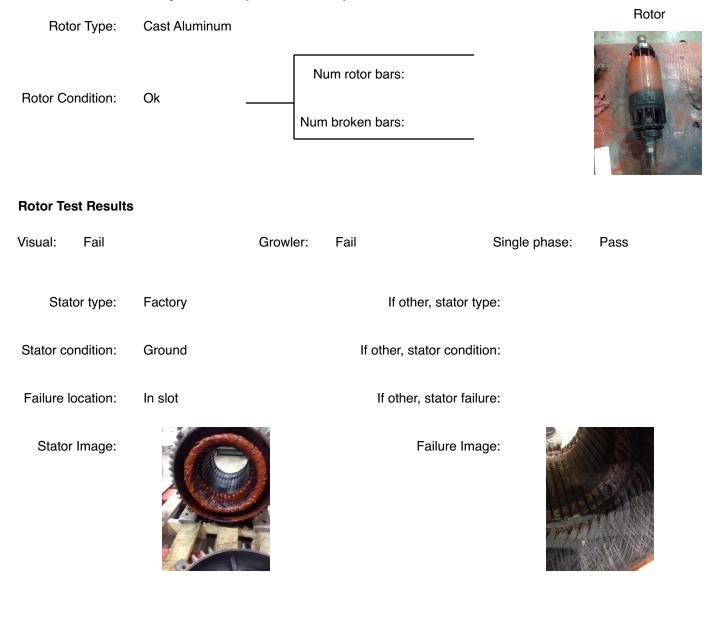
AC Electrical Inspection

Number of leads:	12	Terminal Markings:	:			
Length of leads:	7in	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:	Worn	4-Yellow	8-Red			
Lug type:	NA	Connections As R	eceived:			
Lug Condition:	_		Terminal	Lugs		
Lug size:						
Lug Attachment:	_					

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



AC Electrical Inspection (Continued)



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



AC Electrical Inspection (Continued)

Winding color	: Painted	Winding	g image	Winding Therma	I Protection: No
Winding condition	: Charred				
Winding Therma Protection DE					
Winding Therma Protection ODE					
Stator test results	: Rewind				
Megs incoming:	Good	Surge incoming:	Good	Hi-pot in	coming: Good
Winding Resistanc	e Incoming				
Р	hases A to B	Phases B to C	Phase	es C to A	Resistive imbalance
Incoming (0.00	0.00	0.00		
Leads/ju	mpers: Ok		Lea	d jumper Image. :	
If other, leads/ju	mpers:				
Mechanical I	nspection				
Inspect bolt holes ar	nd fasteners. Valida	te correct fasteners.			

Shaft Condition:	Damaged	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	6312
Shaft runout(TIR-Inbound):	0.009	Bearing ODE Size:	6312

 WEST TENNESSEE
 CENTRAL ARKANSAS

 7030 Ryburn Drive
 6812 Lindsey Rd.

 Millington, TN 38053
 Little Rock, AR 72206

 Phone 901-873-5300
 Phone 501-375-9178

 Fax 901-873-5301
 Fax 501-375-4254

Good

Retainer condition:



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 :	None	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:	Bad	Foot/Flange condition:	Ok
Endbell DE size:	5.1198	Foot flatness:	Pass
Endbell DE insulated?:	_		stomer or EASA spec(<10%
Endbell ODE size:	5.1196	variation)?	
Endbell ODE insulated?:	-		

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



Conclusion

Component Failure

Cause of Failure

Comments

Rotor is blown, stator windings are blown, iron has core damage, both end bells are over sized, shaft is bent, both bearing fits on shaft are under sized, DE bearing gave out and fail apart, a bolt for the ODE end bell is broke and still in housing, DE grease insert is missing, bolts for J-box cover are missing. Recommend new bearings, new shaft, new rotor, rewind, core repair, and new bolts, and machine work.

Chris Wiley Service Tech name:

Service Tech signature:

Chris ality

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