

Job Information

Job #:	95308				Date:	March 2, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	Fosters Service		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	NIDEC	Enclosure :	Weather Protected I (WPI)
Serial#:	S123473550001ST0 3	Model#:	7222-BEH
Service Factor:		Frame:	404TPA
Horsepower/kW:	100	Rated RPM:	1785
Rated Amps:	114	Rated Voltage:	460
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image



Nameplate

DE

ODE

F1

F2







WEST TENNESSE 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?:	_	Contaminant(s):	None
Shaft rotation:	_	Contaminant(s) Amt:	None
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE:	Worn	Bearings DE make:	FAG
Insulated:	No	Bearing DE Size:	7222 MP
Bearings ODE:	Worn	Bearings ODE make:	Other
Bearing Type:	Ball	Bearing ODE Size:	6212
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

Bearing Type Image



Bearing Make Image



WEST TENNESSE 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



Thermal Protection



Mechanical Inspection (Continued)

Lubrication Type:	Oil	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:	Watery
Seals DE type:	N/A		
Seals DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	Slinger		
Seals ODE size:			
Seals ODE (inbound) condition			
Shaft damage cause:	None	Shaft Image:	



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
---------------	-----

N/A

Fan:

N/A

Frame cond.: Good



 Motor Mount Position:
 Horizontal/Foot mount
 Endbell Image:
 Single piece

 Missing parts?
 Endbell Image:
 Endbell Image:
 Image:



Other missing parts

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



Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Sing	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	

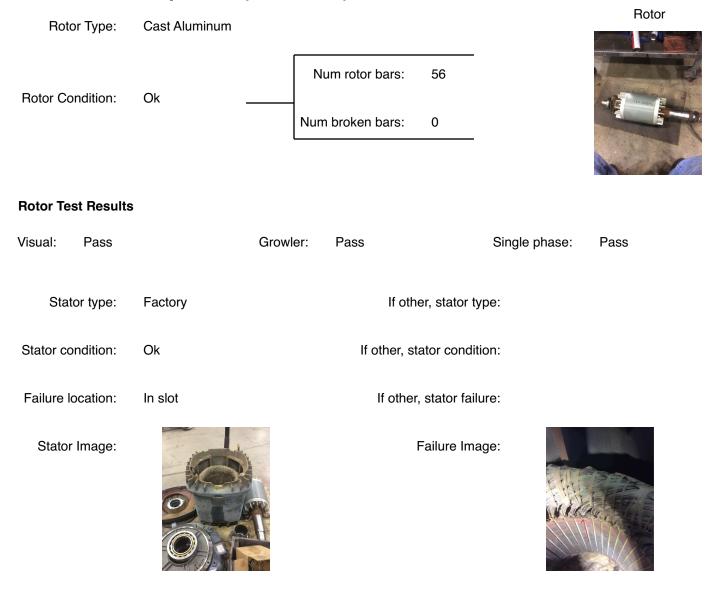
AC Electrical Inspection

Number of leads:	6	Terminal Markings:				
Length of leads:	10.5"	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:	Good	4-Yellow	8-Red			
Lug type:		Connections As Re	ceived:			
Lug Condition:	_	-	Terminal	Lugs		
Lug size:						
Lug Attachment:	-					

WEST TENNESSE 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:	Still has color	Winding	g image	Winding Therma	al Protection	: No
Winding condition :	Charred	20		c.		
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:	_	and the second se	0			
Stator test results:	Rewind					
Megs incoming: G	ood	Surge incoming:	Good	Hi-pot i	ncoming:	Good
Winding Resistance I	ncoming					
Phas	ses A to B	Phases B to C	Phase	es C to A	Resistive	imbalance
Incoming						
Leads/jump	ers: Ok		Lea	d jumper Image.	-	Contraction of the second
If other, leads/jump	ers:					
Mechanical Ins	pection					
Inspect bolt holes and f	asteners. Validat	e correct fasteners.				

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	FAG 7222 MP
Shaft runout(TIR-Inbound):	.001	Bearing ODE Size:	PEER 6212
Retainer condition:	Good		

 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



Mechanical Inspection (Continued)

Seals DE condition :	Worn	Brg. Seats DE:	Good
Seals DE type:	Slinger	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:	Slinger		
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:		Foot flatness:	Pass
Endbell DE insulated?:	No		stomer or EASA spec(<10%
Endbell ODE size:	4.3310	variation)?	
Endbell ODE insulated?:	No	_	

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



Conclusion

Component Failure

Windings.

Cause of Failure

Windings failed at slot edge.

Comments

Windings failed at slot edge. Also lower bearing had evidence of abrasive wear from contaminated grease from moisture.

Service Tech name: Terrence Holland

Service Tech signature:

len

Holla

WEST TENNESSEE

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