

## **Job Information**

Job #:	96275			Date:	December 2, 2019	
Priority:	_	Authorized OT:	No	Authorized by:		

## **Customer Information**

Name:	Greenbrier Central		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

## **Name Plate Information**

Manufacturer:	P&H	Enclosure :	Totally Enclosed Non-Ventilated
Serial#:	D6069200010	Model#:	ZFB150/4DF
Service Factor:		Frame:	132ME-2
Horsepower/kW:	32.5	Rated RPM:	3500
Rated Amps:	84/42	Rated Voltage:	230/460
Phase:	3	Cycles:	60
Special design:	Yes		

#### Enclosure Type image



Nameplate

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?:	Yes	Contaminant(s):	Carbon
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Other
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			Conservation and

Bearings DE:	Worn	Bearings DE make:	NTN
Insulated:	No	Bearing DE Size:	6211
Bearings ODE:	Worn	Bearings ODE make:	NTN
Bearing Type:	Ball	Bearing ODE Size:	6309
Bearings Retainer:	No	Thermal Protection:	No
Retainer condition:	_	Thermal Protection Type:	_

#### Bearing Type Image



Bearing Make Image

Bearing Retainer Image

**Thermal Protection** 



WEST TENNESSE 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:	Full	Grease Cond. DE:	Other
Grease Amt ODE:	Full	Grease Cond. ODE:	Other
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	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
-------	---------	-----

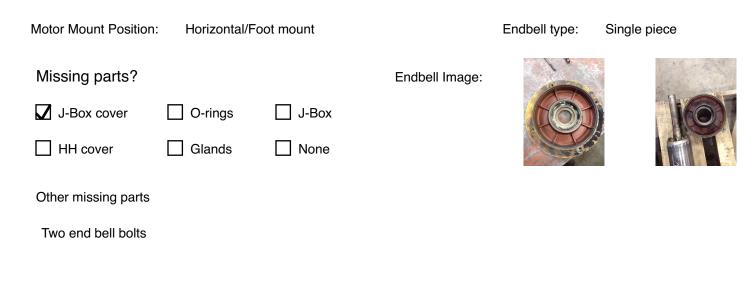
N/A

Fan:

N/A

Frame cond.: Good





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



## **Mechanical Inspection (Continued)**

Air Gap M	eaurements (N/A on Single Piece E	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	

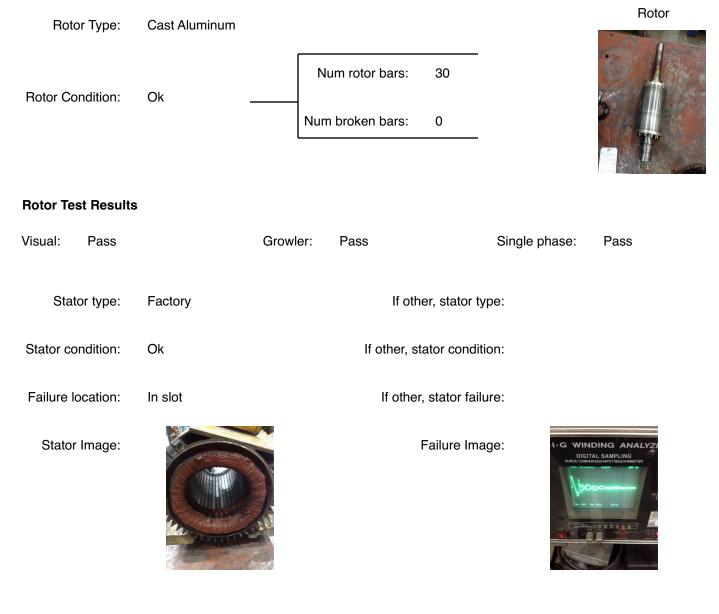
## **AC Electrical Inspection**

Number of leads:	9	Terminal Markings:		
Length of leads:	4 in	REF: NEMA Std Markings Identifi	s. MG 1-2009, Rev. 1- ied By Color:	2010, 2.41-Terminal
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:	Good		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 colo	r: Painted	Winding	g image Windir	ng Thermal Protectio	on: No		
Winding condition	i: Solid						
Winding Therma Protection DE							
Winding Therma Protection ODE							
Stator test result	s: Rewind						
Megs incoming:	Good	Surge incoming:	Good	Hi-pot incoming:	Good		
Winding Resistance	ce Incoming						
F	Phases A to B	Phases B to C	Phases C to	A Resistive	e imbalance		
Incoming	0.00	0.00	0.00				
Leads/ju	umpers: Ok		Lead jumpe	r Image. :			
lf other, leads/ju	umpers:						
Mechanical Inspection							
Inspect bolt holes a	nd fasteners. Valid	late correct fasteners.					
Shaft (	Condition: Goo	d	Bearings Retai	ner: No			

Bearing DE Size:

Bearing ODE Size:

6211

6309

Type of grounding device:

Shaft runout(TIR-Inbound):

Retainer condition:

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



# **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:	Other
Endbell fits/damage:	Good	Foot/Flange condition:	Ok
Endbell DE size:	3.9375	Foot flatness:	Pass
Endbell DE insulated?:	_	Does Air Gap Meet Cus	tomer or EASA spec(<10%
Endbell ODE size:	3.9392 BAD	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

Windings are shorted, J-box cover is missing, two endbell bolts are missing, ODE end bell sleeve is cracked, both bearings show signs of wear. Recommend reconditioning, new bearings, machine work on ODE end bell, new J-box cover, rewind, new bolts.

Service Tech name: Chris Wiley

Service Tech signature:

Ain Milly

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