

# **Job Information**

Job #:	94851				Date:	November 7, 2018
Priority:	_	Authorized OT:	No	Authorized by:		

## **Customer Information**

Name:	Name: North American Electric Motors		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

# **Name Plate Information**

Manufacturer:	North American Electric Motors	Enclosure :	Weather Protected I (WPI)	Enclosure Type i
Serial#:	1507022-SB-YS	Model#:	NAE-VHS-604- PWS	
Service Factor:	1.15	Frame:	364TP-WP1	
Horsepower/kW:	60	Rated RPM:	1770	
Rated Amps:	73	Rated Voltage:	460	
Phase:	3	Cycles:	60	
Special design:	No			

image



Тор

Nameplate





F1









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

Shaft runout(TIR-Inbound):

Bearings DE:	Worn	Bearings DE make:	Other
Insulated:	No	Bearing DE Size:	7224 BM
Bearings ODE:	Worn	Bearings ODE make:	Other
Bearing Type:	Ball	Bearing ODE Size:	6314
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

### Bearing Type Image



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



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:	0	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:	76



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

Brg. Image:



#### Water jacket: N/A

#### Fan:

N/A

Frame cond.: Good



#### Motor Mount Position: Horizontal/Foot mount Endbell type: Single piece Missing parts? Endbell Image: J-Box cover O-rings J-Box HH cover Glands None Other missing parts

Anti reverse ratchet balls (12)

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# **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	

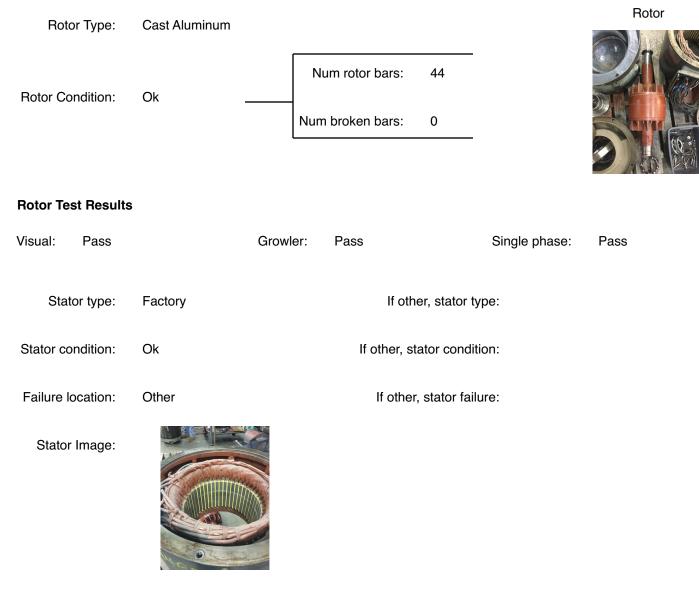
# **AC Electrical Inspection**

Number of leads:	12	Terminal Markings	:	
Length of leads:	17"	REF: NEMA St Markings Ident	tds. MG 1-2009, Rev. 1- ified 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:	_	4-Yellow	8-Red	
Lug type:		Connections As F	Received:	
Lug Condition:	_		Terminal	Lugs
Lug size:				
Lug Attachment:	_			

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



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# **AC Electrical Inspection (Continued)**

Winding color:	Painted	Winding	image	Winding Therma	I Protection:	Yes
Winding condition :	Solid			<u> </u>		
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:	_					
Stator test results:	Salvageable					
Megs incoming: Go	ood	Surge incoming:	Good	Hi-pot in	coming:	Good
Winding Resistance In	coming					
Phase	es A to B	Phases B to C	Phase	es C to A	Resistive i	mbalance
Incoming 0.16	1	0.161	0.16	1	0.1	
Leads/jumpe	ers: Ok					
If other, leads/jumpe	ers:					
Mechanical Ins	pection					

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Good	Bearings Retainer:	Yes
Type of grounding device:		Bearing DE Size:	7224 BM
Shaft runout(TIR-Inbound):		Bearing ODE Size:	6314

Retainer condition: (

n: Good

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# **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:	Good	Foot/Flange condition:	Ok
Endbell DE size:		Foot flatness:	Pass
Endbell DE insulated?:	No		stomer or EASA spec(<10%
Endbell ODE size:	5.9058	variation)?	
Endbell ODE insulated?:	_		

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### Conclusion

**Component Failure** 

Bearings worn

**Cause of Failure** 

#### Comments

Received motor without ratchet balls (12). Rotor was pulled all the way up could not get any thrust measurement

Service Tech name: Lynn M

Lynn McDonald

Service Tech signature:

Lynn Mc Vonald

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