

AC Inspection as Found PRODUCERS RICE STUTTGART 603 N. PARK AVE

STUTTGART, AR 72160

FolderID: 103042 FormID: 20521950

AC Inspection - Rev. 2

Location:	MOTOR SHOP LR	
Serial Number:	WAA127255	
Description:500HP Marathon 2800RPM		

Manufacturer: Marathon **Product Number:** VN5011LHFS16049AAW Spec/ID #: TYPE: TFS Serial Number: WAA127255 HP/kW: 500 (HP) RPM: 2800 (RPM) Frame: 5011L Voltage: 460 Current: 555 (Amps) Phase: Three Hz: 60 (Hz) Service Factor: 1.00 Enclosure: TEFC # of Leads: 12 J-box Included: None Coupling/Sheave: None Date Received: 05/09/2024 **Bearing RTDs:** No Stator RTDs: No **Repair Stage:** Final Rewind: No Shaft Machined Fit Repairs No **Required:** Bearing Housing Machined Yes Fit Repairs Required: Heaters: No Winding Type : Random Wound **Bearing Type: Rolling Element**

103042

Hi-Speed Job Number:

Priorities Found: **2 - High**

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Overall Condition

1. Report Date

06/03/2024

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2. Nameplate Picture



3. Photos of all six sides of the machine.







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P1 & P2







































4.	Describe the Overall Condition of the Equipment as Received
	Serviceable

Initial Mechanical/Electrical

5.	Does Shaft Turn Freely?	(Y) Yes
6.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No
7.	Does Shaft Have Visible Damage?	(No) No
8.	Assembled Shaft Runout	0.001 Inches
9.	Assembled Shaft End Play	0 inches

- 10. Air Gap Variation <10%
- 11. Lead Condition





12.	Lead Length	15.5 Inches	
13.	Does it have Lugs?, If so what is the Stud Size?	(Yes) Yes	
14.	Lead Numbers	1, 2, 3	
15.	Frame Condition	pass	
16.	Fan Condition	(N) NA	

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(P) Pass

17. Broken or Missing Components

tac mount bracket





Initial Electrical Inspection

18. Insulation Resistance/Megger

Megohms

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21.	Number of Stator Slots		72
22.	Stator Condition	pa	ISS
24.	Stator Overloads/Ohms		
Mecha	nical Inspection		O
25.	Drive End Bearing Brand	F	AG

26. Drive End Bearing Number-

6324 M/C3 VL0241

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	1	Drive End Bearing Qty.	27.
	(Ball) Ball Bearing	Drive End Bearing Type	28.
	(Grease) Grease Lubricated	Drive End Lubrication Type	29.
	grounding brush	Drive End Bearing Insulation or Grounding Device?	30.
	none	Drive End Wavy Washer/Snap-Ring Other Retention Device?	31.
	replace	Drive End Bearing Condition	32.
	FAG	Opposite Drive End Bearing Brand	33.
P99	6318 M/C3 VL0241	Opposite Drive End Bearing Number-	34.

- 35. Opposite Drive End Bearing Qty.
- 36. Opposite Drive End Bearing Type

(Ball) Ball Bearing

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37.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
38.	Opposite Drive End Bearing Insulation or Grounding Device?	none	
39.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	wavy washer	
40.	Opposite Drive End Bearing Condition	replace	
41.	Drive End Seal	9000-A-16968-0	P120

42. Opposite Drive End Seal*Replace o-rings*

Rotor Inspection

43. Rotor Type/Material

44. Growler Test

(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast

(Pass) Pass

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Printed on 6/5/2024

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	45.	Number of Rotor Bars		55	
	46.	Rotor Condition		pass	
	47.	. List the Parts needed for the Repair Below			
		Replace bearings & sleeve both housing fits. Opposite drive end fit needs to be insulated and opposite driven bearing needs to be a hybrid insulated bearing. Replace broken tach mounting bracket. Install aegis grounding ring internally on drive end bearing cap.			
	48.	Signature of Technician that Disas	ssembled Motor	Terrence Holland	
		/			
M	echai	nical Fits- Rotor			
	49.	Shaft Runout		0.002 inches	
	50.	Rotor Runout			
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	51.	Coupling Fit Closest to Bearing He	ousing		
		0 Degrees	90 Degrees	120 Degrees	
	52.	Coupling Fit Closest to the end of	the Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	53.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	
		4.7257	4.7258	4.7258	
	54.	Drive End Bearing Shaft Fit Cond	ition	(P) Pass	
	55.	Opposite Drive End Bearing Shaft	t Fit		
		0 Degrees	60 Degrees	120 Degrees	
		3.5435	3.5436	3.5437	
	56.	Opposite Drive End Bearing Shaft	t Fit Condition	(P) Pass	
	57.	Shaft Air Seal Fits			
		Drive End Air Seal	Opposite Drive End Air Seal		
M	echai	nical Fits- Bearing Housings			
	58.	Drive End - Endbell Bearing Fit			
		0 Degrees	60 Degrees	120 Degrees	
		10.2382	10.238	10.2382	
	59.	Drive End - Endbell Bearing Fit Co Out of tolerance. Max allowed is 10	ondition 0.2375	(F) Fail	
	60.	Opposite Drive End - Endbell Bea	ring Fit		
		0 Degrees	60 Degrees	120 Degrees	
		7.4822	7.4821	7.4823	
	61.	Opposite Drive End - Endbell Bea Max allowed is 7.4814	ring Fit Condition	(F) Fail	
	62.	Bearing Cap Condition			
		Drive End Bearing Cap	Opposite Drive End Bearing Cap		
		pass	pass		

69.	Initial Balance Readings			
	Drive End	Opposite Drive End		
70.	Final Balance Readings			
	Drive End	Opposite Drive End		
71.	Technician			
Mecha	nical Fits- Bearing Housings -	Post Repair		
72.	Drive End - Endbell Bearing Fit Po	ost Repair		
	0 Degrees	60 Degrees	120 Degrees	
73.	Opposite Drive End - Endbell Bear	ring Fit Post Repair		
	0 Degrees	60 Degrees	120 Degrees	
74.	Bearing Cap Condition Post Repa	ir		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap		
75.	End Bell Air Seal Fits Post Repair			
	Drive End Air Seal	Opposite Drive End Air Seal		
76.	End Bell Repair Sign-off			
Assem	bly			
77.	QC Check All Parts for Cleanlines	s Prior to Assembly		
78.	Photograph All Major Components prior to assembly			
79.	Accompled Shoft Endploy			
00.	Assembled Shalt Endplay			
01. 82	Test Run Voltage			
02.	Volte	Volte	Volte	
	Volts	VOIIS	Volta	
83.	Test Run Amperage			
	Amps	Amps	Amps	
	1.5			
84.	Drive End Vibration Readings - Inc	ches Per Second		
	Horizontal	Vertical	Axial	
85.	Opposite Drive End Vibration Rea	dings - Inches Per Second		
	Horizontal	Vertical	Axial	
86.	Ambient Temperature - Fahrenhei	t		
87.	Drive End Bearing Temps - Fahre	nheit		
	5 Minutes	10 Minutes	15 Minutes	
88.	Opposite Drive End Bearing Temp	os - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
00	Decument Final Condition with Dic	tures ofter point		

Document Final Condition with Pictures after paint 69.