

Motor Shop Repairs

Job Number 99939

Prepared for Arkansas Lime Company

600 Limedale Rd Batesville AR 72501

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AC Recondition As Found - Motor

AC Recondition - Rev. 2: ENMVGPFT196M001

1.0



Hi-Speed Industrial Service 7030 Ryburn Dr Millington, Tn 38053 901-873-5300

> FolderID: 99939 FormID: 13903116

AC Recondition As Found

Arkansas Lime Company

600 Limedale Rd Batesville, AR 72501



AC Recondition - Rev. 2

Location: Motor Serial Number: ENMVGPFT196M001

Description: 1500HP GE 1800RPM 5812

Hi-Speed Job Number:	99939
Manufacturer:	GE
Product Number:	5KS584EAM221
Serial Number:	ENMVGPFT196M001
HP/kW:	1500 (HP)
RPM:	1779 (RPM)
Frame:	5812
Voltage:	2300/4160
Current:	334/193
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	WPII
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	06/22/2022
Bearing RTDs:	Yes
Stator RTDs:	Yes
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Form Coil
Bearing Type:	Rolling Element

Priorities Found: 1 - High

2 - Good

Overall Condition

1. Report Date 06/22/2022

2. Nameplate Picture



Describe the Overall Condition of the Equipment as Received Motor looks new. Covered in dust

4. Photos of all six sides of the machine.

Initial Mechanical/Electrical

5. Does Shaft Turn Freely? (Yes) Yes 6. Does Shaft Have Visible Damage? (No) No 7. Assembled Shaft Runout 0.0005 Inches Assembled Shaft End Play 8. Air Gap Variation <10% 9.

10. Lead Condition (P) Pass Leads have been spliced from the factory making them hard to bend





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11. Lead Length12. Stator Temperature Detector Rating and Function

Quantity Rating Quantity Passed





13. Bearing Temperature Detector Rating and Function

Quantity Rating Quantity Passed

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14. Frame Condition





15.	Fan Condition			
16.	Broken or Missing Components			
Initial	Initial Electrical Inspection			
17.	. Insulation Resistance/Megger			
18.	Winding Resistance			
	1-2	1-3	2-3	
19.	Perform Surge Test			
20.	Stator Condition			
Mecha	Mechanical Inspection			
21.	Drive End Bearing Number-			
22.	Drive End Bearing Qty.			
23.	Drive End Bearing Type			
24.	Drive End Lubrication Type			
25.	5. Drive End Bearing Insulation or Grounding Device?			
26.	26. Drive End Wavy Washer/Snap-Ring Other Retention Device?			
27.	Drive End Bearing Condition			



29. Opposite Drive End Bearing Qty.





30. Opposite Drive End Bearing Type

(Ball) Ball Bearing

31. Opposite Drive End Lubrication Type

(Grease) Grease Lubricated



32. Opposite Drive End Bearing Insulation or Grounding Device?

insulated end bell

33. Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?

wavy washer

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34.	Opposite Drive End Bearing Condition	1	good	
35.	Drive End Seal			
36.	Opposite Drive End Seal			
Rotor	r Inspection			
37.	Rotor Type/Material			
38.	Growler Test			
39.	Number of Rotor Bars			
40.	Rotor Condition			
41.	List the Parts needed for the Repair B	elow		
42.	Signature of Technician that Disassen	nbled Motor		
Mecha	anical Fits- Rotor			
43.	Shaft Runout			
44.	Rotor Runout			
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
45.	Coupling Fit Closest to Bearing Housing			
	0 Degrees	90 Degrees	120 Degrees	
46.	Coupling Fit Closest to the end of the		100 B	
	0 Degrees	60 Degrees	120 Degrees	
47.	Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
48.	Drive End Bearing Shaft Fit Condition			
	Opposite Drive End Bearing Shaft Fit			
	0 Degrees	60 Degrees	120 Degrees	
50	Opposite Drive End Bearing Shaft Fit	Condition		
	Shaft Air Seal Fits	Condition		
01.	Drive End Air Seal	Opposite Drive End Air Seal		
	anical Fits- Bearing Housings			
52.	Drive End - Endbell Bearing Fit			
	0 Degrees	60 Degrees	120 Degrees	

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53.	Drive End - Endbell Bearing Fit Condi	ition	
54.	Opposite Drive End - Endbell Bearing Fit		
	0 Degrees	60 Degrees	120 Degrees
	Opposite Drive End - Endbell Bearing	Fit Condition	
56.	Bearing Cap Condition		
	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
57.	End Bell Air Seal Fits		
	Drive End Air Seal	Opposite Drive End Air Seal	
50	List Machine Work Needed Below		
	Technician		
_	mic Balance Report		
60.	Rotor Weight and Balance Grade	Dalamas Orada	
	Rotor Weight	Balance Grade	
61	Initial Balance Readings		
011	Drive End	Opposite Drive End	
	DIVO LIIG	Opposite Brive End	
62.	Final Balance Readings		
	Drive End	Opposite Drive End	
		• •	
63.	Technician		
Root	Cause of Failure		
64.	Failure locations		
65.	Root cause of failure		
Asser	Assembly		
66.	5. Photograph All Major Components prior to assembly		
67.	Final Insulation Resistance Test		
68.	Assembled Shaft Endplay		
69.	Assembled Shaft Runout		
70.	Test Run Voltage		
	Volts	Volts	Volts



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71	Test Run Amperage		
/ 1.		•	
	Amps	Amps	Amps
72.	Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
73.	. Opposite Drive End Vibration Readings - Inches Per Second		
	Horizontal	Vertical	Axial
74.	Ambient Temperature - Fahrenheit		
75.	. Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
76.	. Opposite Drive End Bearing Temps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
77.	. Stator Temperatures- Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes
78.	Final Test Run Sign-off		
79.	. Document Final Condition with Pictures after paint		
80.	Final Pics and QC Review		

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- 5. <u>DELIVERY OF GOODS AND/OR SERVICES.</u> Unless otherwise identified in the quotation, all shipments are F.O.B. Hi-Speed's warehouse and the title to and all risk of loss with respect to any goods shipped shall pass to Buyer when such goods are delivered to the carrier at Hi-Speed's warehouse. Hi-Speed will use its best efforts to affect delivery by the date or dates specified in the quotation. However, Hi-Speed shall not be liable for delay in or failure to make shipment, or to perform services, by any identified date for any reason whatsoever, including but not limited to, causes beyond its reasonable control, such as strikes, fires, floods, epidemics, quarantines, restrictions, severe weather, embargos, acts of God, or public enemy, war, riot, delays in transportation or the inability to obtain necessary labor, materials or manufacturing facilities.
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- 8. WARRANTIES. Hi-Speed warrants that all goods shall conform in all material aspects to the goods identified in the quotation to Buyer and/or purchase order, and Hi-Speed makes to Buyer the manufacturer's express warranty for any goods sold to Buyer, which is offered by the manufacturer at the time of acceptance of any quotation by Buyer. This warranty is conditioned upon the installation, operation, and maintenance of the goods in accordance with the manufacturer's recommendations and/or standard industry practice and the goods at all times being operated or used under normal operating conditions for which they were designed. Hi-Speed, at its sole option, will repair or

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- 13. FORCE MAJEURE. Neither party shall be responsible for any delay or failure in performance of any party of the quotation, purchase order or these Standard Terms and Conditions to the extent that such delays or failures are caused by fire, flood, earth quake, explosion, war, embargo, government requirement, civil or military authority, acts of God, or any other circumstances beyond its reasonable control and not involving any fault or negligence on the party affected ("Condition"). If any such Condition occurs, the party delayed or unable to perform shall promptly give written notice to the other party and, if such Condition remains at the end of thirty (30) days, the party affected by the other party's delay and inability to perform may elect to (i) terminate such order or part thereof, or (ii) suspend the order for the duration of the Condition, if the Buyer is the suspending party, buy elsewhere comparable material to be sold under the order and apply to any commitment the purchase price of such purchase, and resume performance of the order once the Condition ceases, with an option in the affected party to extend the period of this order up to the length of the time the Condition endures.
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