

## **Job Information**

Job #:	94764				Date:	October 2, 2018
Priority:	_	Authorized OT:	No	Authorized by:		

# **Customer Information**

Name:	Arkansas Electric		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

## **Name Plate Information**

Manufacturer:	Allis Chalmers	Enclosure :	Open Drop Proof (ODP)	Enclosure Type image
Serial#:	1-5112-75377-1-1	Model#:	Type GS	
Service Factor:	1.15	Frame:	3023S6	
Horsepower/kW:	800	Rated RPM:	1775	1
Rated Amps:	99	Rated Voltage:	4,000	
Phase:	3	Cycles:	60	
Special design:	No			

Nameplate

DE

ODE

F1

F2













Тор

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## **Mechanical Inspection**

### Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	Dirt
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Gallon
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE:	Worn	Bearings DE make:	Other
Insulated:	No	Bearing DE Size:	
Bearings ODE:	Worn	Bearings ODE make:	Other
Bearing Type:	Babbitt	Bearing ODE Size:	
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	Good	Thermal Protection Type:	RTD

### Bearing Type Image



Bearing Make Image

Not Available

#### Bearing Retainer Image



**Thermal Protection** 



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# **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:	N/A	Grease Cond. ODE:	Other
Seals DE type: Seals DE size:	Slinger	Seals Image:	Not Available
Seals DE (inbound) condition :			Avaitable
Seals ODE type: Seals ODE size:	Slinger	Seals Image 2:	Not Available
Seals ODE (inbound) condition : Shaft damage cause:	None	Shaft Image:	



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# **Mechanical Inspection (Continued)**

Brg. Image:	Bushings/sk	eeves image: Not Available
Water jacket: N/A	Fan: N/A	Frame cond.: Good
Not Available	Not Available	
Motor Mount Position: Horizontal/Foot mount		Endbell type: Split type
Missing parts?	Endbell Image:	
Other missing parts		

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# **Mechanical Inspection (Continued)**

Air Gap Mo	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	

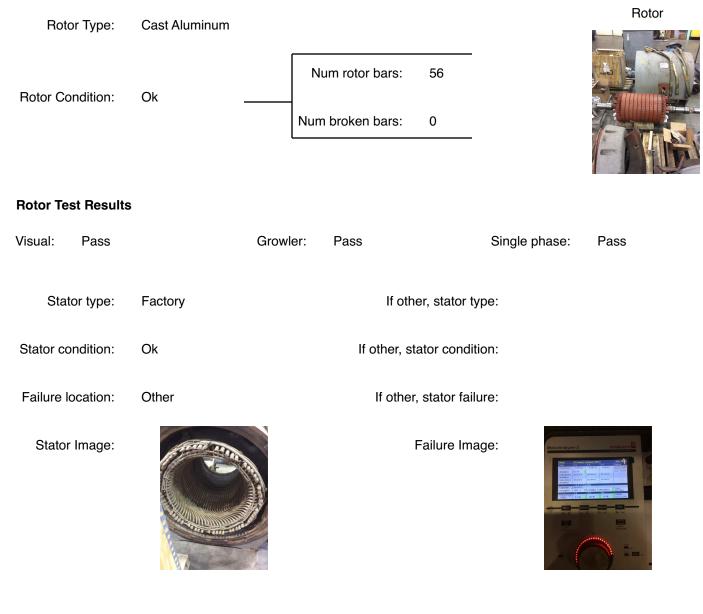
# **AC Electrical Inspection**

Number of leads:	3	Terminal Markings	:	
Length of leads:	20"	REF: NEMA St Markings Ident	ds. 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:	Good	4-Yellow	8-Red	
Lug type:		Connections As F	Received:	
Lug Condition:	Good		Terminal	Lugs
Lug size:				
Lug Attachment:	Acceptable		Not Available	





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



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# **AC Electrical Inspection (Continued)**

Winding co	olor:	Still has color	Winding	g image	Winding Therma	I Protection:	Yes
Winding conditi	on :	Solid				and the second	CALL ROOM
Winding Ther Protection		Good					
Winding Ther Protection O		Good					
Stator test rest	ults:	Salvageable					
Megs incoming:	Goo	d	Surge incoming:	Good	Hi-pot in	coming: G	iood
Winding Resista	nce In	coming					
	Phas	es A to B	Phases B to C	Phase	es C to A	Resistive imb	balance
Incoming	36.3		36.1	36.4		0.5	
Leads	s/jumpe	ers: Ok		Lead jur	nper Image. :	Telescoloradiyase Z Telescoloradiyase Z Telescolo	
If other, leads	s/jumpe	ers:					

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## Conclusion

### **Component Failure**

O.d.e bearing is undersized on outside diameter.004. Top of bearing housing out of tolerance and needs to be machined. Both bearings need to re-surfaced.

#### Cause of Failure

Recondition/bearings resurfaced and top bearing housing out of tolerance. D.E. Heater terminals corroded and heater needs replacing.

#### Comments

Replace d.e. 115v heater. Both bearings being sent off to be resurfaced. D.E. Top bearing holder worn and needs machining. O.d.e. Bearing is undersized on outside diameter. All RTD's check @approximately 120 ohms. (6) ea.

Service Tech name: Terrence Holland

Service Tech signature:

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