

### **Job Information**

Job #:	95244				Date:	February 18, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

### **Customer Information**

Name:	Riceland Foods		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

### **Name Plate Information**

Manufacturer:	Reliance	Enclosure :	Explosion-proof enclosures (EXPL/	Enclosure Type image
Serial#:	89MN444826	Model#:	P44G4826A	
Service Factor:	1.0	Frame:	X445T	
Horsepower/kW:	150	Rated RPM:	1785	
Rated Amps:	170	Rated Voltage:	460	
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?:	No	Contaminant(s):	None
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	Yes		
Type of grounding device:	Ageis		

Shaft runout(TIR-Inbound):

Bearings DE:	Worn	Bearings DE make:	FAG
Insulated:	No	Bearing DE Size:	6318
Bearings ODE:	Worn	Bearings ODE make:	FAG
Bearing Type:	Ball	Bearing ODE Size:	6318
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	_	Thermal Protection Type:	_

#### Bearing Type Image



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### **Thermal Protection**





# **Mechanical Inspection (Continued)**

Lubrication Type:	Grease	Thermal Protection device DE:	_
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	_
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	Full	Grease Cond. DE:	New
Grease Amt ODE:	Full	Grease Cond. ODE:	New
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:	Other	Shaft Image:	



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

Brg. Image:

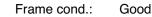


#### Water jacket: Ok



Fan: Ok







Motor Mount Position:

Missing parts?

J-Box cover

Other missing parts

HH cover

Horizontal/Foot mount

J-Box

Vone

Endbell type:

Single piece



Endbell Image:





O-rings

Glands

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# **Mechanical Inspection (Continued)**

Air Gap Meaurements (N/A on Single Pie	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	

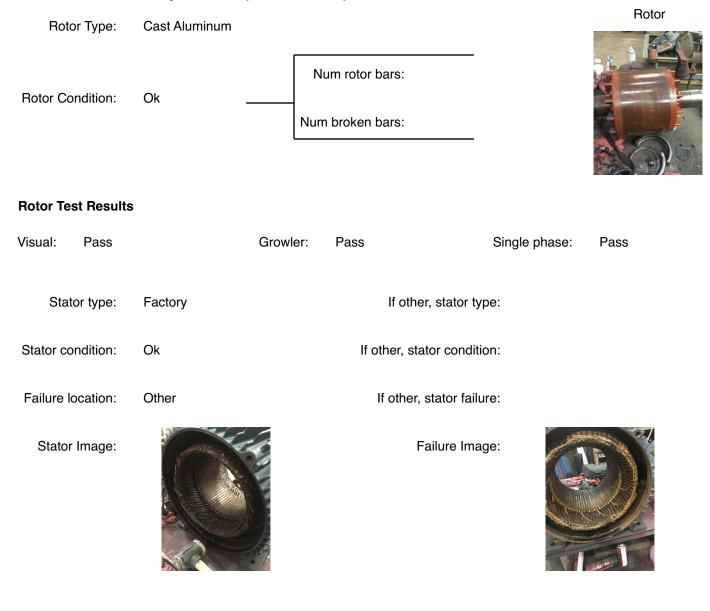
# **AC Electrical Inspection**

Number of leads:	3	Terminal Markings:				
Length of leads:		REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:				
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:	_	-	Ferminal	Lugs		
Lug size:			Not	Not		
Lug Attachment:	_		Not ailable	Not Available		

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



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# **AC Electrical Inspection (Continued)**

Winding co	olor:	Like new	Winding	g image	Winding Thermal	l Protectio	n: Yes
Winding conditi	ion :	Solid		E			Not
Winding Ther Protection		_	Not Available				
Winding Ther Protection O		_					
Stator test res	ults:	Salvageable					
Megs incoming:	G	bod	Surge incoming:	Good	Hi-pot ind	coming:	Good
Winding Resista	ance In	coming					
	Phas	es A to B	Phases B to C	Phase	es C to A	Resistive	e imbalance
Incoming	40.8	92	39.261	40.19	98	2.3	
Leads	s/jump	ers: Ok		Lead	d jumper Image. :		
If other, lead	s/jump	ers:				ŀ	Not Available

# **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition:	Damaged	Bearings Retainer:	Yes
Type of grounding device:	Ageis	Bearing DE Size:	6318
Shaft runout(TIR-Inbound):		Bearing ODE Size:	6318

Retainer condition:

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# **Mechanical Inspection (Continued)**

Seals DE condition :	Worn	Brg. Seats DE:	Undersized
Seals DE type:	N/A	If DE undersized, amt.:	.0016
Seals DE size:		Brg. Seats ODE:	Good
Seals DE (inbound) condition :		If ODE undersized, amt.:	
Seals ODE condition :	Worn	Shaft damage:	Salvageable
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:	7.4812	Foot flatness:	Pass
Endbell DE insulated?:	No		tomer or EASA spec(<10%
Endbell ODE size:	7.4892 Bad	variation)?	
Endbell ODE insulated?:	Yes		

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### Conclusion

**Component Failure** 

**Cause of Failure** 

Bearing failed due to miss alignment

#### Comments

DE shaft bearing fit bad and cap need repair ODE end bell bearing journal needs repair

Service Tech name:

Robert Wiley

Service Tech signature:

sort Willog

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