

## **Job Information**

Job #:	95668					June 14, 2019
Priority:	-	Authorized OT:	No	Authorized by:		

## **Customer Information**

Name:	: Rhein Chemie		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

## **Name Plate Information**

Manufacturer:	Louis Allis	Enclosure :	Open Drop Proof (ODP)
Serial#:	COGX	Model#:	8366381001
Service Factor:	1.15	Frame:	404US
Horsepower/kW:	60	Rated RPM:	1775
Rated Amps:	57.5	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?:	Yes	Contaminant(s):	None
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	No		
Type of grounding device:			

Shaft runout(TIR-Inbound):

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	6214-2ZN/C3HT51
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	6214-2ZN/C3HT51
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

#### Bearing Type Image



Bearing Make Image



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**Thermal Protection** 



# **Mechanical Inspection (Continued)**

Lubrication Type:	Grease	Thermal Protection device DE:	_
Lubrication brand inbound:	Unknown	Thermal Protection device ODE:	_
Lubrication brand outbound:	Unknown		
Grease Amt DE:	Full	Grease Cond. DE:	Gritty
Grease Amt ODE:	Full	Grease Cond. ODE:	Gritty
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:	



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

Brg. Image:



Bushings/sleeves image:



Fan:

N/A

Endbell Image:

Frame cond.:

.: Good

Motor Mount Position:

Horizontal/Foot mount

J-Box

None

O-rings

Glands

Endbell type:

Single piece

Other missing parts

Missing parts?

J-Box cover

HH cover

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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	

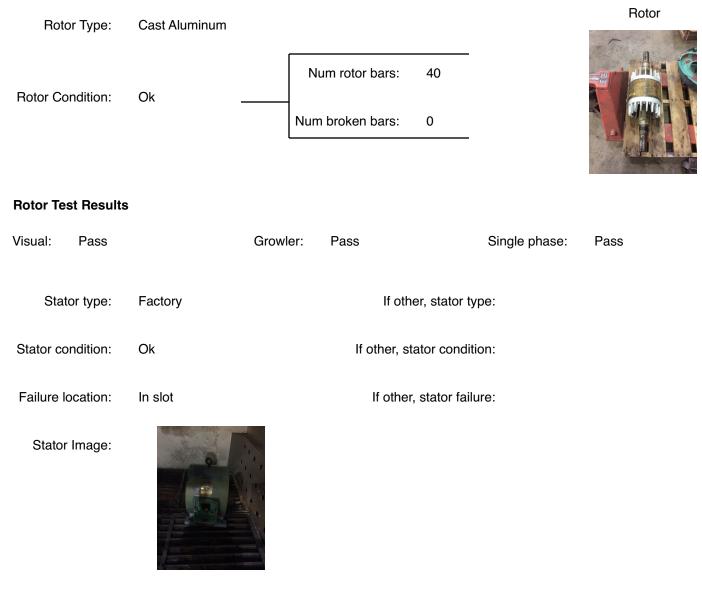
## **AC Electrical Inspection**

Number of leads:	3	Terminal Markings:			
Length of leads:	4"	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	eceived:		
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:	Still has color	Winding	g image	Winding Ther	rmal Protection	: No	
Winding condition :	Solid						
Winding Thermal Protection DE:	_						
Winding Thermal Protection ODE:	_	5					
Stator test results:	Salvageable						
Megs incoming: Go	ood	Surge incoming:	Good	Hi-po	ot incoming:	Good	
Winding Resistance In	coming						
Phase	es A to B	Phases B to C	Phases	s C to A	Resistive i	mbalance	
Incoming							
Leads/jumpe	ers: Ok		Lead	jumper Image	e.:		
If other, leads/jumpe	ers:						
Mechanical Insp	pection					- 91	
Inspect bolt holes and fa	isteners. Validat	e correct fasteners.			A A A A A A A A A A A A A A A A A A A	- 19	
Shaft Conc	lition: Good		Bearings	Retainer:	Yes		
Type of grounding de	evice:		Bearing	g DE Size:	6214-2ZN/C3	HT51	
Shaft runout(TIR-Inbo	und):		Bearing (	ODE Size:	6214-2ZN/C3	HT51	
Retainer conc	lition: Good						
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# **Mechanical Inspection (Continued)**

Seals DE condition :	Worn	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 :	Worn	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:	4.9213	Foot flatness:	Pass	
Endbell DE insulated?:	No		stomer or EASA spec(<10%	
Endbell ODE size:	4.9225(Bad)	variation)?		
Endbell ODE insulated?:	No			

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## Conclusion

#### **Component Failure**

Bearings

Cause of Failure

Contaminated grease

#### Comments

Motor meg test good. Ran motor on test panel and bearings were worn. Disassembly of motor revealed excessive amounts of dirt and debris inside housing. Also #1 punched end bell fit measured too large.

Service Tech name: Terrence Holland

Service Tech signature:

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