Job Information

Job #:   94111

Date: April 13, 2018

Priority: —   Authorized OT: No   Authorized by:

Customer Information

Name: Rhein chemise

Reason:

Contact: Motor#:   PO#:

Application: —   Special notes:

Name Plate Information

Manufacturer:	Louis Allis	Enclosure :	Open Drop Proof (ODP)
Serial#:	COGX	Model#:	7352744001
Service Factor:	1.15	Frame:	365U
Horsepower/kW:	50	Rated RPM:	1775
Rated Amps:	122/61	Rated Voltage:	220/440
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image

Nameplate	DE	ODE	F1	F2	Top

Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	Grease
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	6313 2rs/C3 GJN
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	6313 2rs/C3 GJN
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	—	Thermal Protection Type:	—

Bearing Type Image	Bearing Make Image	Bearing Retainer Image	Thermal Protection

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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: Hard

Grease Amt ODE: Full

Grease Cond. ODE: Gritty

Seals DE type: Slinger

Seals DE size:

Seals DE (inbound) condition :

Seals Image 2:

Seals ODE type: Slinger

Seals ODE size:

Seals ODE (inbound) condition :

Shaft damage cause: None

Shaft Image:

Mechanical Inspection (Continued)

Brg. Image:

Water jacket: Ok

Fan: Ok

Frame cond.:   Good

Motor Mount Position: Horizontal/Foot mount

Endbell type: Single piece

Missing parts?

☐ J-Box cover   ☐ O-rings   ☐ J-Box

☐ HH cover   ☐ Glands   ☐ None

Other missing parts

Endbell Image:

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Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Single Piece Endbell)

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: 9

Length of leads: 6"

Size of leads:

Lead condition: Good

Lug type:

Lug Condition: —

Lug size:

Lug Attachment: —

Terminal Markings:

REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:

1-Blue	5-Black	P1-No color assigned
2-White	6-No color assigned	P2-Brown
3-Orange	7-No color assigned	
4-Yellow	8-Red	

Connections As Received:

Terminal	Lugs

AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor

Rotor Condition: Ok

Num rotor bars:

Num broken bars:

Rotor Test Results

Visual: Pass   Growler: Pass   Single phase: Pass

Stator type: Factory   If other, stator type:

Stator condition: Ok   If other, stator condition:

Failure location: In slot   If other, stator failure:

Stator Image:

Failure Image:

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AC Electrical Inspection (Continued)

Winding color: Like new

Winding image

Winding Thermal Protection: Yes

Winding condition :   Solid

Winding Thermal
Protection DE: —

Winding Thermal
Protection ODE: —

Stator test results: Salvageable

Megs incoming: Good   Surge incoming: Good   Hi-pot incoming: Good

Winding Resistance Incoming

	Phases A to B	Phases B to C	Phases C to A	Resistive imbalance
Incoming	0.135	0.135	0.135	0.2

Leads/jumpers: Ok

Lead jumper Image:

If other, leads/jumpers:

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Conclusion

Component Failure

Cause of Failure

Housing fits/contamination.

Comments

Both end bell housing fits were worn causing excessive bearing play. Also the motor had a excessive amount of grease contamination inside the stator windings. Motor tested bad initially, but after washing and baking the stator,the readings cleared up. Recommend re sleeve on both housing fits.

Service Tech name: Terrence Holland

Service Tech signature:

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