

Job Information

Job #:	94758				Date:	September 28, 2018
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	Flakeboard		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	Siemens	Enclosure :	Totally Enclosed Wash down	Enclosure Type image
Serial#:	L93	Model#:	1LA03654TC21A	
Service Factor:	1.15	Frame:	365T	
Horsepower/kW:	75	Rated RPM:	1775	
Rated Amps:	178.8/89.4	Rated Voltage:	230/460	
Phase:	3	Cycles:	60	
Special design:	No			



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?:	No		
Type of grounding device:			

Shaft runout(TIR-Inbound):

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	6314 Z
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	6210 Z
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	_	Thermal Protection Type:	_

Bearing Retainer Image

Not

Available

Thermal Protection

Not

Available

Bearing Type Image



Bearing Make Image



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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:	Charred
Grease Amt ODE:	Full	Grease Cond. ODE:	Charred
Seals DE type:	N/A	Seals Image:	Not
Seals DE size:			Available
Seals DE (inbound) condition :			
Seals ODE type: Seals ODE size:	N/A	Seals Image 2:	Not Available
Seals ODE (inbound) condition			
Shaft damage cause:	None	Shaft Image:	

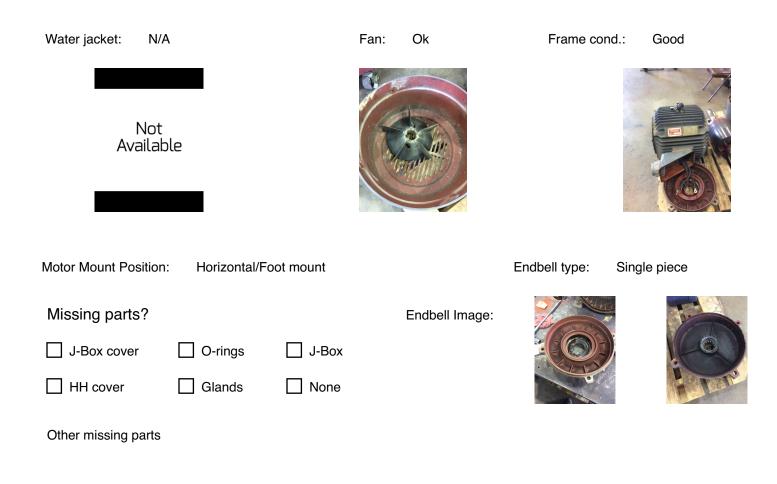
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Mechanical Inspection (Continued)

Brg. Image:





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Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Single P	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	

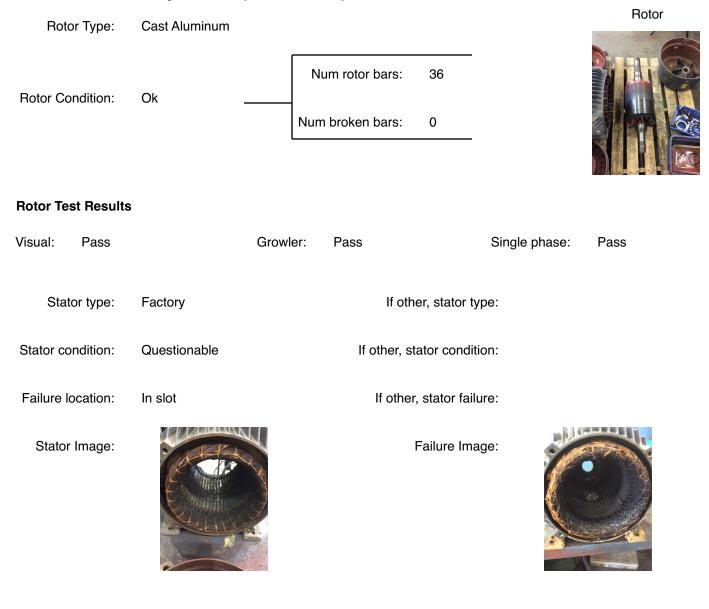
AC Electrical Inspection

Number of leads:	3	Terminal Markings:		
Length of leads:	12"	REF: NEMA Sto Markings Identif	ls. MG 1-2009, Rev. 1- ied 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 Re	eceived:	
Lug Condition:	Good		Terminal	Lugs
Lug size:			Not	
Lug Attachment:	Acceptable	Α	vailable	
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AC Electrical Inspection (Continued)



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AC Electrical Inspection (Continued)

Dull black	Winding	g image	Winding Therma	al Protection:	No
Solid					
_			Not Availa		
_					
Rewind					
	Surge incoming:	Bad	Hi-pot ir	ncoming:	Bad
coming					
es A to B	Phases B to C	Phase	es C to A	Resistive in	nbalance
	Solid Rewind	Solid - - Rewind Surge incoming:	Solid - - Rewind Surge incoming: Bad	Solid - - Rewind Surge incoming: Bad Hi-pot in Surge incoming: Bad Hi-pot in	Solid - Ava - Rewind Surge incoming: Bad Hi-pot incoming:

Leads/jumpers: Ok

If other, leads/jumpers:

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Conclusion

Component Failure

O.D.E bearing

Cause of Failure

Bearing suffered metal fatigue and flung pieces of shrapnel into the windings. Also the rotor collapsed onto the stator iron causing significant damage and needs to be core tested to see if it still within tolerance.

Comments

Motor assembly tested bad on initial test. Disassembly of motor revealed winding/core damage possibly resulting from an electrical surge or multiple attempts to restart the motor. The core is damaged beyond repair and a new motor is recommended.

Service Tech name: Terrence Holland

Service Tech signature:

Hill

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