

Job Information

Job #:	138886				Date:
Priority:	_	Authorized OT:	No	Authorized by:	

Customer Information

Name:	KTG		Reason:	Motor inspection
Contact:	Cindy Davis	Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	Siemens	Enclosure :	Open Drop Proof (ODP)
Serial#:	1LE15032BA235AB4	Model#:	1CV3222A
Service Factor:		Frame:	
Horsepower/kW:	45	Rated RPM:	3600
Rated Amps:	F	Rated Voltage:	480
Phase:	3	Cycles:	
Special design:	No		

Enclosure Type image



Nameplate

DE

ODE

F1

F2















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Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	No	Contaminant(s):	Water
Shaft rotation:	CW	Contaminant(s) Amt:	Gallon
Shaft grounding device present?:	No	Contaminant Image:	
Type of grounding device:			

Shaft runout(TIR-Inbound):

Bearings DE:	Fell Apart	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	6213zz
Bearings ODE:	Worn	Bearings ODE make:	SKF
Bearing Type:	Ball	Bearing ODE Size:	6213
Bearings Retainer:	No	Thermal Protection:	Yes
Retainer condition:	_	Thermal Protection Type:	RTD

Bearing Type Image



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Bearing Retainer Image



Thermal Protection





Mechanical Inspection (Continued)

Lubrication Type:	Grease	Thermal Protection device DE:	Thermal Overloads
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	N/A
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	Full	Grease Cond. DE:	Watery
Grease Amt ODE:	Full	Grease Cond. ODE:	New
Seals DE type:	Other	Seals Image:	
Seals DE size:	V-45		
Seals DE (inbound) condition :	Worn		
		Seals Image 2:	
Seals ODE type:	Other	Seals mage 2.	
Seals ODE size:	V-45		917
Seals ODE (inbound) condition :	Worn		
Shaft damage cause:	None	Shaft Image:	



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Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket: N	I/A	Fan:	Ok	Frame cor	nd.: Good
Motor Mount Positio	on: Horizontal/Foc	ot mount		Endbell type:	Single piece
Missing parts?				Endbell Image:	
J-Box cover	O-rings	J-Box			
HH cover	Glands	None None			
Other missing parts	S				



Mechanical Inspection (Continued)

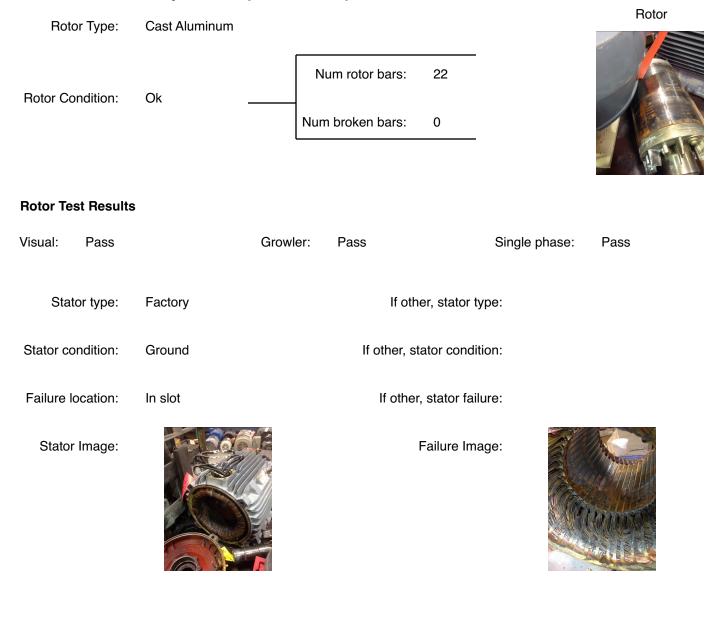
Air Gap Meaurements (N/A on Single Piece Endbell)			Does Air Gap Meet Customer or EASA spec(<10% variation)?
	DE @ 0	ODE @ 0	_
	DE @ 90	ODE @ 90	
	DE @ 180	ODE @ 180	
	DE @ 270	ODE @ 270	

AC Electrical Inspection

Number of leads:	6	Terminal Markings:
Length of leads:	12 inches	REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:
Size of leads:	6 wag	1-Blue5-BlackP1-No color assigned2-White6-No color assignedP2-Brown3-Orange7-No color assignedP2-Brown
Lead condition:	Good	4-Yellow 8-Red
Lug type:	Standard	Connections As Received: 480 volt
Lug Condition:	Good	Terminal Lugs
Lug size:	6awg	
Lug Attachment:	_	



AC Electrical Inspection (Continued)



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1990 a

AC Electrical Inspection (Continued)

Winding color:	Still has color	Winding	g image	Winding Therma	I Protection:	Yes
Winding condition :	Solid					
Winding Thermal Protection DE:	_					
Winding Thermal Protection ODE:						
Stator test results: Rewind						
Megs incoming: Bad		Surge incoming:	Bad	Hi-pot in	coming: Ba	ad
Winding Resistance Inc	coming					
Phase	es A to B	Phases B to C	Phase	es C to A	Resistive imb	alance
Incoming						
Leads/jumpe	ers: Ok		Lead jun	nper Image. :		
If other, leads/jumpe	ers:				OF C	



Conclusion

Component Failure

D.E. breaking and windings

Cause of Failure

Cause of failure was water inside of motor. Water wiped out d.e. Bearing causing severe vibration and grounding out the windings.

Comments

The dust shield that customer states is a shield is not a seal. It's a dust shield. Behind the shield is a v-ring. Even with both shield and v ring still won't seal the front shaft seal. It's meant to keep dust out NOT WATER.

Service Tech name: Dan Mahan

Service Tech signature:

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