

#### **Job Information**

Job #: 96222 Date: November 5,

2019

Priority: — Authorized OT: No Authorized by:

#### **Customer Information**

Name: Synovos Reason:

Contact: Motor#: PO#:

Application: – Special notes:

#### **Name Plate Information**

Manufacturer: Cemp Enclosure: Open Drop Proof Enclosure Type image

(ODP)

Serial#: S1 Model#: 71258502

Service Factor: Frame:

Horsepower/kW: .37 Rated RPM: 1644

Rated Amps: 1.57/0.91 Rated Voltage: 280/480

Phase: 3 Cycles: 60

No

Nameplate DE ODE F1 F2 Top



Special design:





Fax 901-873-5301



### **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?:

Type of grounding device:

Shaft runout(TIR-Inbound):

Bearings DE: Worn Bearings DE make: SKF

Insulated: No Bearing DE Size: 6203 2Z

Bearings ODE: Worn Bearings ODE make: SKF

Bearing Type: Ball Bearing ODE Size: 6203 2Z

Bearings Retainer: No Thermal Protection: Yes

Retainer condition: — Thermal Protection Type: —

Bearing Type Image



Bearing Make Image



Bearing Retainer Image

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: 0 Grease Cond. DE: Other

Grease Amt ODE: 0 Grease Cond. ODE: Other

Seals DE type: Slinger

Seals DE size:

Seals DE (inbound) condition:

Seals ODE type: Slinger

Seals ODE size:

Seals ODE (inbound) condition

:

Shaft damage cause: None



# **Mechanical Inspection (Continued)**

Water jacket: Ok Fan: Ok Frame cond.: Good Motor Mount Position: Horizontal/Foot mount Endbell type: Single piece Missing parts? O-rings ☐ J-Box cover ☐ J-Box ☐ HH cover ☐ Glands ☐ None

Other missing parts



#### **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: — 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 5-Black P1-No color assigned

2-White 6-No color assigned P2-Brown

3-Orange 7-No color assigned

Lead condition: — 4-Yellow 8-Red

Lug type: Connections As Received:

Lug Condition: — Terminal Lugs

Lug size:

Lug Attachment: —

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# **AC Electrical Inspection (Continued)**

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:

Num broken bars:

Rotor

#### **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:



## **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

Leads/jumpers: Ok

If other, leads/jumpers:

# **Mechanical Inspection**

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Good Bearings Retainer: Yes

Type of grounding device: Bearing DE Size:

Shaft runout(TIR-Inbound): Bearing ODE Size:

Retainer condition: —

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# **Mechanical Inspection (Continued)**

Seals DE condition :	Worn	Brg. Seats DE:	Good	
Seals DE type:	Slinger	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:	OK	
Seals ODE type:	Slinger			
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:		Foot flatness:	Pass	
Endbell DE insulated?:	_	Does Air Gap Meet Cu	Does Air Gap Meet Customer or EASA spec(<10% variation)?	
Endbell ODE size:		variation)?		

Endbell ODE insulated?:



#### Conclusion

**Component Failure** 

Bearings

**Cause of Failure** 

Lack of lubrication on both bearings.

**Comments** 

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Service Tech signature:

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