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Job Information

Job #: 135055 Date: July 22, 2017

Priority: 2 Authorized OT: No Authorized by:

Customer Information

Name: Sinclair Foods Reason:

Contact: Motor#: PO#:

Name Plate Information

Manufacturer:	SEW Eurodrive	Enclosure :	Totally Enclosed Fan Cooled	Enclosure Type image
Serial#:	Dfv100L4	Model#:		
Service Factor:		Frame:	DT79	
Horsepower/kW:	5	Rated RPM:	1680	
Rated Amps:	13.2/6.6	Rated Voltage:	230/460	

Mechanical Inspection

Does the shaft turn freely?: Yes

Contaminant(s): Water

Contaminant(s) Amt: Cup

Containment Image:

Mechanical inspection continued

Bearings DE:	Worn	Bearings DE make:	Other
Insulated:	No		
Bearings ODE:	Other	Bearings ODE make:	NSK
Bearing Type:	Ball		
Bearings Retainer:	No	Thermal Protection:	No
Retainer condition:	—	Thermal Protection Type:	—

Bearing Type Image

Bearing Make Image

Bearing Retainer Image

Thermal Protection

Lubrication Type:	Oil	Thermal Protection device DE:	Good
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	Good
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	0	Grease Cond. DE:	Other
Grease Amt ODE:	0	Grease Cond. ODE:	Other

Mechanical inspection continued

Seals DE:	None
Seals ODE:	None
Brg. Seats DE:	Good
If DE undersized, amt.:	
Brg. Seats ODE:	Good
If ODE undersized, amt.:	
Shaft damage:	OK
Shaft damage cause:	None

Shaft Image:

Bushings/sleeves DE:	Ok
Bushings/sleeves ODE:	Ok

Water jacket: N/A

Fan: Ok

Frame: Good

Mechanical inspection continued

Endbell fits/damage: Bad

Endbell DE size:

Endbell ODE size:

Endbell type: Single piece

Endbell Image:

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

DE @ 0	ODE @ 0
DE @ 90	ODE @ 90
DE @ 180	ODE @ 180
DE @ 270	ODE @ 270

Does Air Gap Meet Customer or EASA spec(<10% variation)?

—

Motor Mount Position: Horizontal/Foot mount

Foot/Flange condition: Ok

Foot flatness: Pass

Missing parts?

☐ J-Box cover ☐ O-rings ☐ J-Box

☐ HH cover ☐ Glands ☐ None

Other missing parts

AC Electrical Inspection

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:	28
Num broken bars:	0

Rotor Image:

AC Electrical Inspection continued

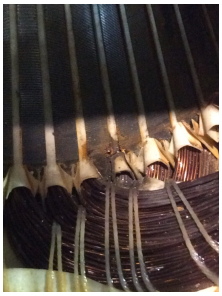
Rotor Test Results

Visual:	Pass	Growler:	Pass	Single phase:	Pass

Stator type:	Factory	If other, stator type:	
Stator condition:	Ground	If other, stator condition:	
Failure location:	In slot	If other, stator failure:	

Stator Image:

Failure Image:



Winding color:	Like new	Winding image		Winding Thermal Protection:	Yes
Winding condition :	Solid				
Thermal Protection device DE:	Good				
Thermal Protection device ODE:	Good				
Stator test results:	Rewind				

Megs incoming:	Bad	Surge incoming:	Bad	Hi-pot incoming:	Bad
Megs after rewind:	Good	Surge after rewind:	Good	Hi-pot after rewind:	Good
Megs at reassembly:	Good	Surge at reassembly:	Good	Hi-pot reassembly:	Good

AC Electrical Inspection continued

Core loss: Good Thermistors: None Thermostat: None

RTD: None ohms at degrees C

Motor Heater(s) Present: Yes Qty: Voltage: Wattage:

Winding Resistance Incoming

	Phases A to B	Phases B to C	Phases C to A	Resistive imbalance
Incoming		0.01	179.2	150
Outgoing				

Core Test Data

	Flux	Watts	Watts loss per lb	Condition of iron
Before burnout				
After burnout				

Leads/jumpers: Ok

If other, leads/jumpers:

Conclusion

Component Failure

Insulation in stator

Cause of Failure

Water in stator

Comments

Test Run Inspection

Date

— I have merged this motor and verified that all electrical tests are complete!

Power Supply

	Phase A	Phase B	Phase C
No Load Voltage			
No Load Current			

Temperatures: (Degrees Fahrenheit)

Test run ball bearing motors for 15 minutes.
Test Ron sleeve bearing motors for one hour.

Temperature rise at the end of test run should be less than 2° every five minutes.

Test Run Inspection continued

Ambient Temp:

TIME	DE	Degree Change	ODE	Degree Change
START:				
5 MIN:				
10 MIN:				
15 MIN:				
20 MIN:				
25 MIN:				
30 MIN:				
35 MIN:				
40 MIN:				
45 MIN:				
50 MIN:				
55 MIN:				
60 MIN:				

Test Run Inspection continued

Vibration Data: In./Sec-Peak **(Readings should be less than .08 In/Sec Peak)**

	Horizontal	VDE	Axial
DE			
ODE			

Magnetic Center Measurements **(Only Applies to Sleeve Bearing Motors)**

Magnetic Center line distance from shaft shoulder

Magnetic Center line distance from all the way out mark

Magnetic Center line distance from all the way in mark

Total Motor End Float

Additional photos

Service Tech name:

Service Tech signature: