Job Information

Job #: 139445 Date: April 5, 2019

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: City of Bartlett rec center Reason: Motor inspection

Contact: Motor#: PO#:

Application: — Special notes:

Name Plate Information

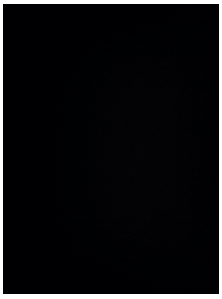
Manufacturer:	Us	Enclosure :	Open Drop Proof (ODP)
Serial#:		Model#:	
Service Factor:		Frame:	404tp
Horsepower/kW:	100	Rated RPM:	1775
Rated Amps:	241.5/120.6	Rated Voltage:	230/460
Phase:	3	Cycles:	
Special design:	No		

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):	None
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	No	Contaminant Image:	[redacted]
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE:	Worn	Bearings DE make:	SKF
Insulated:	No	Bearing DE Size:	7222
Bearings ODE:	Worn	Bearings ODE make:	Other
Bearing Type:	Ball	Bearing ODE Size:	6212zz
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	—	Thermal Protection Type:	—

Bearing Type Image

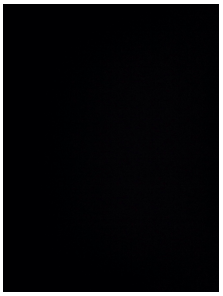
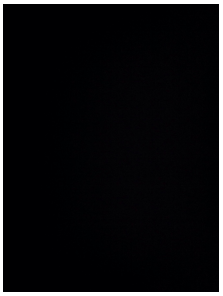
Bearing Make Image

Bearing Retainer Image

Thermal Protection

[redacted]

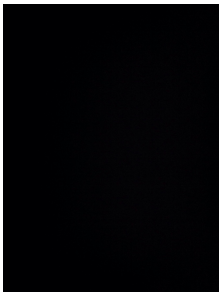
Mechanical Inspection (Continued)

Lubrication Type:	Oil	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:	New
Grease Amt ODE:	Full	Grease Cond. ODE:	Other
Seals DE type:	N/A	Seals Image:	
Seals DE size:			
Seals DE (inbound) condition :			
		Seals Image 2:	
Seals ODE type:	N/A		
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	None	Shaft Image:	

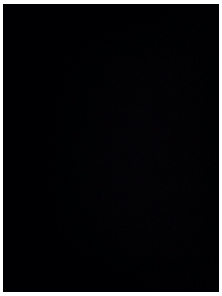
Mechanical Inspection (Continued)

Brg. Image:

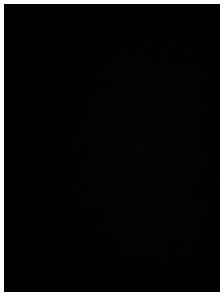
Bushings/sleeves image:



Water jacket: N/A



Fan: N/A



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

Endbell Image:

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: 9

Length of leads: 12 inches

Size of leads: 8 AWG

Lead condition: Good

Lug type: Standard

Lug Condition: Good

Lug size: 8 AWG

Lug Attachment: —

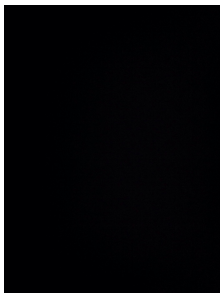
Terminal Markings:

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

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

Connections As Received:

Terminal



Lugs

AC Electrical Inspection (Continued)

Rotor Type: Cast Aluminum

Rotor Condition: Ok

Num rotor bars:	58
Num broken bars:	0

Rotor

Rotor Test Results

Visual: Pass Growler: Pass Single phase: Pass

Stator type: Factory

If other, stator type:

Stator condition: Ok

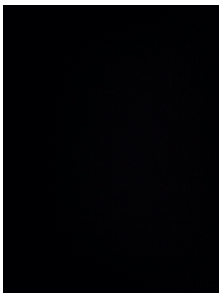
If other, stator condition:

Failure location: In slot

If other, stator failure:

Stator Image:

Failure Image:

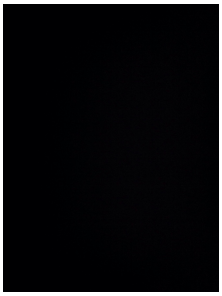


AC Electrical Inspection (Continued)

Winding color: Still has color

Winding image

Winding Thermal Protection: No



Winding condition : Solid

Winding Thermal Protection DE: —

Winding Thermal Protection ODE: —

Stator test results: Salvageable

Megs incoming: Good

Surge incoming: Good

Hi-pot incoming: Bad

Winding Resistance Incoming

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

Leads/jumpers: Ok

Lead jumper Image. :

If other, leads/jumpers:

Conclusion

Component Failure

Cause of Failure

Low megs. Almost grounded could have caused electrical vibration

Comments

Motor has really low megs. Ran a hi pot test and came back as failed. Needs to be washed and baked and retested

Service Tech name: Dan Mahan

Service Tech signature: