



MILLINGTON, TN

LITTLE ROCK, AR

MECHANICAL EVALUATION

Job Information

Job #: 140512

Date: August 29, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: Dell power plant

Reason:

Contact:

Motor#:

PO#:

Application: —

Special notes:

Name Plate Information

Manufacturer:

Enclosure : Open Drop Proof (ODP)

Horsepower/kW:

Serial#:

Rated Voltage:

Phase:

Rated RPM:

Service Factor:

Special design: No

Cycles:

Rated Amps:

Model#:

Frame:

WEST TENNESSEE

7030 Ryburn Drive
Millington, TN 38053
Phone 901-873-5300
Fax 901-873-5301

CENTRAL ARKANSAS

6812 Lindsey Rd.
Little Rock, AR 72206
Phone 501-375-9178
Fax 501-375-4254

Mechanical Inspection

Shaft grounding device
present?: No

Shaft runout(TIR-Inbound):

Bearings Retainer: Yes

Retainer condition: —

Bearing Type: Ball

IS BEARING A THRUST BRG:

DE BEARING NAME
AND NUMBER: SKF 6310

ODE BEARING NAME AND #: SKF 6209

DE BEARING SIZE I.D.: 50mm

ODE BEARING SIZE I.D.: 45mm

DE BEARING SIZE
O.D.: 110mm

ODE BEARING SIZE O.D.: 85mm

Is bearing Insulated: No

Is bearing Insulated: No

Thermal Protection: Yes

Thermal Protection Type: —



Bearing Make Image



Thermal Protection



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MECHANICAL EVALUATION

Mechanical Inspection (Continued)

DE SHAFT
IMAGE:



ODE SHAFT IMAGE:



Water jacket: Ok

Fan: Ok

Frame cond.: Good

Motor Mount
Position: Horizontal/Foot mount

Endbell type: Single piece

DE Endbell Image:



ODE Endbell Image:



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MECHANICAL EVALUATION

Mechanical Inspection (cont)

Inspect bolt holes and fasteners. Validate correct fasteners.

Shaft Condition: Good

DE AND ODE SEAL TYPE: —

DE SHAFT EXT.: 1.3747

ODE SHAFT EXT.: N/a

DE SHAFT EXT. KEYWAY: .308

ODE SHAFT EXT. KEYWAY: N/a

DE SHAFT AIR SEAL (inner): 2.375

ODE SHAFT AIR SEAL (inner): 2.00

(Outer): 1.964

(Outer): 1.769`

DE SHAFT BRG JOURNAL : 1.9689

ODE SHAFT BRG JOURNAL : 1.772

If journal is undersize,amount: 000

If journal is undersize,amount: 000

DE BEARING SEAT: Good

ODE BEARING SEAT: Good

Shaft damage cause: None

REPAIR OR REPLACE SHAFT:

ANY OTHER SHAFT DAMAGE NOT
PREVIOUSLY MENTIONED:

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MECHANICAL EVALUATION

Mechanical Inspection (Continued)

DE Endbell fits/damage: Good

ODE Endbell fits/damage: Good

DE END BELL BRG FIT: 4.331

ODE END BELL BRG FIT: 3.347

DE END BELL AIR SEAL: 1.966

ODE END BELL AIR SEAL: 1.656

Endbell DE insulated?: No

Endbell ODE insulated?: No

Bushings/sleeves DE: Ok

Bushings/sleeves ODE: Ok

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

Yes

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MECHANICAL EVALUATION

Conclusion

LIST MACHINE WORK
REQUIRED : Turn and undercut commutator

 Fits are within tolerance

Service Tech name: Billy mays

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