



MILLINGTON, TN

LITTLE ROCK, AR

MECHANICAL EVALUATION

Job Information

Job #: 140435

Date: August 20, 2019

Priority: —

Authorized OT: No

Authorized by:

Customer Information

Name: NUCOR

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):	.128. ON SLINDEDEND
Bearings Retainer:	Yes	Retainer condition:	Good
Bearing Type:	Ball	IS BEARING A THRUST BRG:	NO
DE BEARING NAME AND NUMBER:	SKF6210	ODE BEARING NAME AND #:	6209
DE BEARING SIZE I.D.:	1.968	ODE BEARING SIZE I.D.:	1.772
DE BEARING SIZE O.D.:	3'	ODE BEARING SIZE O.D.:	3.347
Is bearing Insulated:	No	Is bearing Insulated:	No
Thermal Protection:	No	Thermal Protection Type:	—





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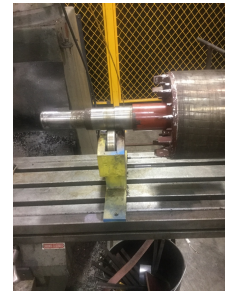
MECHANICAL EVALUATION

Mechanical Inspection (Continued)

DE SHAFT
IMAGE:



ODE SHAFT IMAGE:



Water jacket: N/A

Fan: N/A

Frame cond.: Good

Motor Mount
Position: Horizontal/Flange 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: Damaged

DE AND ODE SEAL TYPE: —

DE SHAFT EXT.: 1.624

ODE SHAFT EXT.: 1.187 W/ SPLINES

DE SHAFT EXT. KEYWAY: .375

ODE SHAFT EXT. KEYWAY: SPLINED

DE SHAFT AIR SEAL (inner): 2.140

ODE SHAFT AIR SEAL (inner): 1.937

(Outer): 1.903

(Outer): 1.765

DE SHAFT BRG JOURNAL : 1.969

ODE SHAFT BRG JOURNAL : 1.771

If journal is undersize,amount: .000

If journal is undersize,amount: -.0008

DE BEARING SEAT: Good

ODE BEARING SEAT: Undersized

Shaft damage cause: Spline bad

REPAIR OR REPLACE SHAFT: REPLACE

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: 3.5433

ODE END BELL BRG FIT: 3.347

DE END BELL AIR SEAL:

ODE END BELL AIR SEAL:

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 : REPLACE SHAFT

Service Tech name: BILLY MAYS

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