

Job Information

Job #: 94308 Date:

Priority: — Authorized OT: No Authorized by:

Customer Information

Name: Sage Reason: Recon

Contact: Motor#: PO#:

Application: Direct Drive Special notes: Pump attached

Name Plate Information

Manufacturer: Wet Enclosure: Totally Enclosed Enclosure Type image

Fan Cooled Serial#: 10217443033 Model#:

Service Factor: 1.25 Frame: 254/6JM

Horsepower/kW: 20 Rated RPM:

Rated Amps: 48.6/24.3 Rated Voltage: 460

Phase: 3 Cycles: 60

Special design: No

Nameplate DE ODE F1 F2 Top













WEST TENNESSEE

Not

Available



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?: Yes Contaminant(s): None

Shaft rotation: CW Contaminant(s) Amt: None

Shaft Condition: — Contaminant Image:

present?:

Type of grounding device:

Shaft grounding device

Shaft runout(TIR-Inbound): 0.001

Bearings DE: Other Bearings DE make: NSK

Insulated: No Bearing DE Size: 6309C3

Bearings ODE: Other Bearings ODE make: NSK

Bearing Type: Ball Bearing ODE Size: 6209C3

Bearings Retainer: Yes Thermal Protection: No

Retainer condition: Good Thermal Protection Type: —

Bearing Type Image



Bearing Make Image

Not Available Bearing Retainer Image



Thermal Protection

Not Available



Mechanical Inspection (Continued)

Lubrication Type: Thermal Protection device DE: N/A Grease

Lubrication brand inbound: Mobile Polyrex EM Thermal Protection device ODE: N/A

Lubrication brand outbound: Mobile Polyrex EM

> Grease Amt DE: 1/2 Grease Cond. DE: Hard

Grease Amt ODE: 1/2 Grease Cond. ODE: Hard

Seals DE condition: Brittle Seals Image:

Seals DE type: Slinger

Seals DE size: 1.7698

Seals DE (inbound) condition: Bad

> Seals ODE condition: Brittle

> > Seals ODE type: Slinger

> > Seals ODE size: 1.7698

Seals ODE (inbound) condition Bad



Seals Image 2:





Mechanical Inspection (Continued)

Brg. Seats DE: Good Brg. Image:

If DE undersized, amt.:

Brg. Seats ODE: Good

If ODE undersized, amt.:

Shaft Image:



Shaft damage: OK

Shaft damage cause: None

Bushings/sleeves DE: Bushings/sleeves image: Ok

Bushings/sleeves ODE: Ok

Not Available

Water jacket:

N/A

Fan:

Ok

Frame cond.:

Good

Not

Not Available

Available



Mechanical Inspection (Continued)

Endbell fits/damage:	Good		Endbell type:	Single piece
Endbell DE size:	3.9371		Endbell Image:	
Endbell DE insulated?:	No			
Endbell ODE size:	3.347			
Endbell ODE insulated?:	No			
Motor Mount Position:	Horizontal/Foot mount			
Foot/Flange condition:	Ok			
Foot flatness:	Pass			
Missing parts?				
J-Box cover	O-rings	Box HH cov	ver Glands	None
Other missing parts				
Air Gap Meaurements	(N/A on Single Piece E	indbell)	Does Air Ga spec(<10%	p Meet Customer or EASA variation)?
DE @ 0		ODE @ 0	_	
DE @ 90		ODE @ 90		
DE @ 180		ODE @ 180		
DE @ 270		ODE @ 270		

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



Good

None

AC Electrical Inspection

Number of leads: 12 Terminal Markings: 1-12

Length of leads: 5 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

Terminal

Available

3-Orange 7-No color assigned

Lead condition: Good 4-Yellow 8-Red

Connections As Received: 460 volt Lug type: None

Not

Rotor

Lugs

Num rotor bars: 44

Num broken bars:

Cast Aluminum

Ok

Rotor Test Results

Rotor Condition:

Lug Condition:

Lug Attachment:

Rotor Type:

Lug size:

Visual: Pass Growler: Pass Single phase: Pass



AC Electrical Inspection (Continued)

Stator type: Factory If other, stator type:

Stator condition: Ok If other, stator condition:

Failure location: Other If other, stator failure:

Failure Image:

Not Available

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

Not Available

Megs incoming: Good Surge incoming: Good Hi-pot incoming: Good

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
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RTD: None ohms at degrees C

Motor Heater(s) Present: No Qty: Voltage: Wattage:

Winding Resistance Incoming

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

Incoming 0.655 0.654 0.654 0.1

Outgoing

Core Test Data

Flux Watts Watts loss per lb Condition of iron

Before burnout

After burnout

Leads/jumpers: Ok Lead jumper Image:

If other, leads/jumpers:





Conclusion

Component Failure

Spring loaded shaft seal o	n pump			
Cause of Failure				
None				
Comments				
Replace bearings, vrings,	and pump seal			
Test Run Inspecti	on		Date	
— I have m	erged this motor a	nd verified that all ele	ectrical tests are com	plete!
Power Supply				
	Phase A	Phase B	Phase C	
No Load Voltage				
No Load Current				
Temperatures: (De	grees Fahrenheit)			
Test run ball-bearii	ng motors for 15 r	ninutes.		
Test run sleeve bea	aring motors for 6	0 minutes.		

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)
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

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- 1	Yes, the shaft has been isolated for delivery.
_	res, the shall has been isolated for delivery.

Service Tech name: Dewey

Service Tech signature: