

Job Information

Job #:	94189				Date:	April 25, 2018
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	Advanced fluid tech		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	Reliance	Enclosure :	Totally Enclosed Fan Cooled
Serial#:	B9023794-020	Model#:	B377400
Service Factor:	1.15	Frame:	324HP
Horsepower/kW:	40	Rated RPM:	1775
Rated Amps:	99/49.5	Rated Voltage:	230/460
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image



Nameplate

DE

ODE

F1

F2

Тор









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



Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	No	Contaminant(s):	Water
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Cup
Shaft grounding device present?:	No	Contaminant Image:	Tr.
Type of grounding device:			
Shaft runout(TIR-Inbound):			

Bearings DE:	Worn	Bearings DE make:	Коуо
Insulated:	No	Bearing DE Size:	6311Z/C3
Bearings ODE:	Worn	Bearings ODE make:	Коуо
Bearing Type:	Ball	Bearing ODE Size:	6311Z/C3
Bearings Retainer:	Yes	Thermal Protection:	Yes
Retainer condition:	_	Thermal Protection Type:	_

Bearing Type Image



Bearing Make Image



WEST TENNESSE 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

Bearing Retainer Image



Thermal Protection



Mechanical Inspection (Continued)

Lubrication Type:	Grease	Thermal Protection device DE:	_
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	_
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	1/4	Grease Cond. DE:	Watery
Grease Amt ODE:	1/2	Grease Cond. ODE:	Watery
Seals DE type:	N/A		
Seals DE size:			
Seals DE (inbound) condition :			
Seals ODE type:	N/A		
Seals ODE size:			
Seals ODE (inbound) condition :			
Shaft damage cause:	None	Shaft Image:	-



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



Mechanical Inspection (Continued)

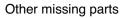
Brg. Image:



Bushings/sleeves image:



Water jacket: Ok		Fan:	Ok	Frame co	nd.: Good
Motor Mount Position: Horizontal	/Foot mount			Endbell type:	Single piece
Missing parts?	J-Box			Endbell Image:	
HH cover Glands	None None				Contraction of the second



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







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	

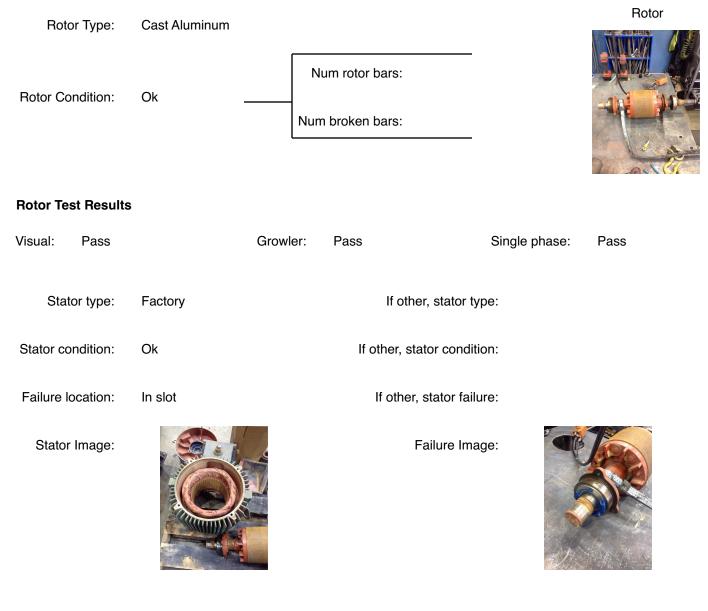
AC Electrical Inspection

Number of leads:	9	Terminal Markings:				
Length of leads:	6"	REF: NEMA Stds. MG 1-2009, Rev. 1-2010, 2.41-Terminal Markings Identified By Color:				
Size of leads:		1-Blue 2-White 3-Orange	5-Black 6-No color assigned 7-No color assigned	P1-No color assigned P2-Brown		
Lead condition:	Good	4-Yellow	8-Red			
Lug type:		Connections As Re	eceived:			
Lug Condition:	_		Terminal	Lugs		
Lug size:						
Lug Attachment:	_			·		

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



AC Electrical Inspection (Continued)



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



AC Electrical Inspection (Continued)

Winding color:	Still has color	Winding	g image	Winding Therma	I Protection:	Yes
Winding condition :	Solid				Torrest Arc stave (3.) process Resolutions 0.019.0.2 30.00 Invariance 0.019.0.2 30.00 Invariance 0.019.0.2 30.00 Invariance 0.000000 0.000000 Invariance 0.000000 0.000000 Invariance 0.000000 0.000000 Invariance 0.000000 0.0000000 Invariance 0.000000 0.0000000	1400 V 7600 Fills 3 2.3 Tantar 0.00 4.1160 A 0.000 C-20 m 0.000
Winding Thermal Protection DE:	_		<u>J</u>		1934/dv 60.0 v 118/1994 1999/1994 11.0 v 118/1994 1999/1994 11.0 v 118/1994 11.0 v 118/1994	0 - 00000000 \$ 0007401 20 90 20 90 2000 20 90 20 90 2000 10 - 00 000 2000 10 - 000000 10 - 0000000 10 - 000000 10 - 000000 10 - 00000 10 - 000000 10 - 00000 10 - 00000 10 - 00000 10 -
Winding Thermal Protection ODE:	_		M			
Stator test results:	Salvageable					
Megs incoming: Goo	d	Surge incoming:	Good	Hi-pot in	coming: G	ood
Winding Resistance In	coming					
Phas	es A to B	Phases B to C	Phase	s C to A	Resistive imb	balance
Incoming 0.19	9	0.200	0.199		0.1	
Leads/jumpo			Lead ju	mper Image:		

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



Conclusion

Component Failure

Cause of Failure

Motor submerged in water.

Comments

Stator tested good. Recommend wash and bake windings/full recondition of motor assembly. Note: motor was previously disassembled by another company prior to arrival at our facility.

Service Tech name:

Terrence Holland

Service Tech signature:

Permee Holland

WEST TENNESSEE

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