

Job Information

Job #:	141815				Date:	February 10, 2020
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	Hydro flow pumps	Reaso	n:
Contact:		Motor#: 141815	PO#:
Application:	Direct Drive	Special notes:	

Name Plate Information

Manufacturer:	MARATHON	Enclosure :	Totally Enclosed Air Over (TEAO)	Enclosure Type in
Serial#:		Model#:		
Service Factor:		Frame:	BA90AS	
Horsepower/kW:	1/2	Rated RPM:	825	2 9
Rated Amps:	6.60/3.30	Rated Voltage:	115/230	
Phase:	1	Cycles:	60/50	
Special design:	No			

image



Nameplate

DE

ODE

F1





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?:	Yes	Contaminant(s):	Dirt	
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	Other	
Shaft grounding device present?:	No	Contaminant Image:		
Type of grounding device:				
Shaft runout(TIR-Inbound):	.001			
Bearings DE:	Worn	Bearings DE make:	Other	

Insulated:	No	Bearing DE Size:	6203ZZ
Bearings ODE:	Worn	Bearings ODE make:	Other
Bearing Type:	Ball	Bearing ODE Size:	6203ZZ
Bearings Retainer:	No	Thermal Protection:	Yes
Retainer condition:	_	Thermal Protection Type:	Thermocouple

Bearing Type Image



Bearing Make Image



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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:	N/A
Lubrication brand inbound:	Mobile Polyrex EM	Thermal Protection device ODE:	Bad
Lubrication brand outbound:	Mobile Polyrex EM		
Grease Amt DE:	Full	Grease Cond. DE:	Gritty
Grease Amt ODE:	Full	Grease Cond. ODE:	Gritty
Seals DE type:	N/A	Seals Image:	
Seals DE size:	N/A		
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:	1



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Mechanical Inspection (Continued)

Brg. Image:



Bushings/sleeves image:



Water jacket:	Ok	Fai	n: N/A	Frame cond	.: Good
Motor Mount Pos	sition: Horizontal/Fo	pot mount		Endbell type:	Single piece
Missing parts	s?			Endbell Image:	1-2
J-Box cover	O-rings	J-Box			
HH cover	Glands	None None			600
Other missing p	arts				

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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

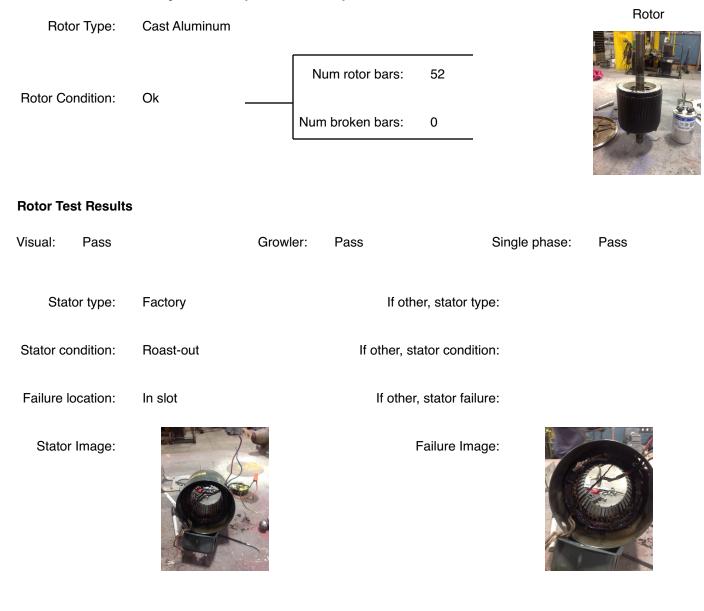
Number of leads:	_	Terminal Markings:	5 leads	
Length of leads:	8"	REF: NEMA Stds Markings Identifie	. MG 1-2009, Rev. 1- ed By Color:	2010, 2.41-Terminal
Size of leads:	16	1-Blue 2-White 3-Orange	5-Black 6-No color assigned 7-No color assigned	P1-No color assigned P2-Brown
Lead condition:	Worn	4-Yellow	8-Red	
Lug type:	N/A	Connections As Rec	eived: White, red ,t together	blue open orange an black
Lug Condition:	_	т	erminal	Lugs
Lug size:	N/A			
Lug Attachment:	Replace	S. C.		1. Car

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AC Electrical Inspection (Continued)



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AC Electrical Inspection (Continued)

Winding color:	Dull black	Winding	image	Winding Therma	I Protection:	Yes
Winding condition :	Charred				E	1
Winding Thermal Protection DE:					10	
Winding Thermal Protection ODE: Bad			A A A A A A A A A A A A A A A A A A A			
Stator test results:	Rewind					
Megs incoming: Bad		Surge incoming:	Bad	Hi-pot in	coming: Ba	ad
Winding Resistance In	coming					
Phase	es A to B	Phases B to C	Phase	es C to A	Resistive imb	alance
Incoming						
Leads/jumpe	ers: Replace		Lead jun	nper Image. :	3	
If other, leads/jumpe	ers:					

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Conclusion

Component Failure

Windings ,bearings ,thermo

Cause of Failure

Windings are roasted

Comments

The cap 30uf 370 vac is good Cuplin is flush Spring washer in the ODE Rewind stator Two new bearings

Service Tech name: Michael Jordan

Service Tech signature:

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