

Job Information

Job #:	96234				Date:	November 18, 2019
Priority:	_	Authorized OT:	No	Authorized by:		

Customer Information

Name:	Arauco		Reason:	
Contact:		Motor#:		PO#:
Application:	_	Special notes:		

Name Plate Information

Manufacturer:	NIDEC	Enclosure :	Totally Enclosed Fan Cooled
Serial#:		Model#:	TYPE:CTE
Service Factor:	1.16	Frame:	445T
Horsepower/kW:	150	Rated RPM:	1785
Rated Amps:	171	Rated Voltage:	460
Phase:	3	Cycles:	60
Special design:	No		

Enclosure Type image





DE

ODE



F2

Тор









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Mechanical Inspection

Inspect bolt holes and fasteners. Validate correct fasteners.

Does the shaft turn freely?:	Yes	Contaminant(s):	None
Shaft rotation:	Bi-directional	Contaminant(s) Amt:	None
Shaft grounding device present?:	No		
Type of grounding device:			

Shaft runout(TIR-Inbound):

Bearings DE:	Worn	Bearings DE make:	Other
Insulated:	No	Bearing DE Size:	6318
Bearings ODE:	Worn	Bearings ODE make:	Other
Bearing Type:	Ball	Bearing ODE Size:	6313
Bearings Retainer:	Yes	Thermal Protection:	No
Retainer condition:	Good	Thermal Protection Type:	_

Bearing Type Image



Bearing Make Image



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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:	Full	Grease Cond. DE:	Other
Grease Amt ODE:	Full	Grease Cond. ODE:	Other
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:	

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Mechanical Inspection (Continued)

Brg. Image:



Water jacket: N/A	Water	jacket:	N/A
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Fan: Ok



Frame cond.: Good



Single piece

Motor Mount Position:	Horizontal/Foot mount	
Missing parts?		

O-rings

Glands

Endbell Image:



Endbell type:



Other missing parts

J-Box cover

HH cover

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J-Box

V None



Mechanical Inspection (Continued)

Air Gap Meaurements (N/A on Single P	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

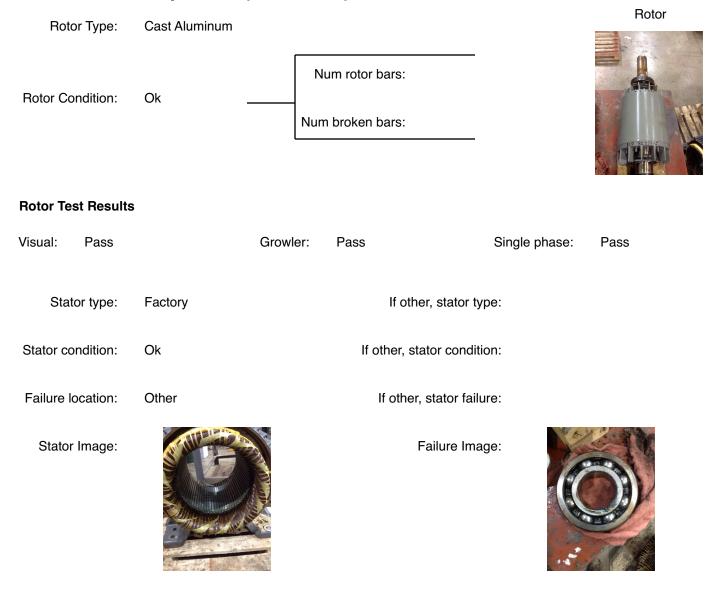
Number of leads:	6	Terminal Markings:		
Length of leads:	12in	REF: NEMA Std Markings Identif	ls. MG 1-2009, Rev. 1- ied By Color:	2010, 2.41-Terminal
Size of leads:		1-Blue 2-White 3-Orange	5-Black 6-No color assigned 7-No color assigned	P1-No color assigned P2-Brown
Lead condition:	Good	4-Yellow	8-Red	
Lug type:		Connections As Re	eceived:	
Lug Condition:	Good		Terminal	Lugs
Lug size:				er.
Lug Attachment:	-			

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AC Electrical Inspection (Continued)



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AC Electrical Inspection (Continued)

Winding color	r: Still has colo	r Winding	g image Windir	ng Thermal Protectio	n: No
Winding condition	: Solid		11 march and		
Winding Therma Protection DE					
Winding Therma Protection ODE					
Stator test results	: Salvageable				
Megs incoming:	Good	Surge incoming:	Good	Hi-pot incoming:	Good
Winding Resistanc	e Incoming				
P	hases A to B	Phases B to C	Phases C to A	A Resistive	imbalance
Incoming C	0.00	0.00	0.00		
Leads/ju	impers: Ok		Lead jumpe	r Image. :	di.
If other, leads/ju	impers:				
Mechanical II	-				
Inspect bolt holes ar	nd fasteners. Valio	late correct fasteners.			
Shaft C	Condition: Goo	d	Bearings Retair	ner: Yes	

Type of grounding device:

Shaft runout(TIR-Inbound):

Retainer condition:

: Good

Bearing DE Size: 6318 Bearing ODE Size: 6313

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Mechanical Inspection (Continued)

Seals DE condition :	None	Brg. Seats DE:	Good
Seals DE type:	N/A	If DE undersized, amt.:	
Seals DE size:		Brg. Seats ODE:	Good
Seals DE (inbound) condition :		If ODE undersized, amt.:	
Seals ODE condition :	None	Shaft damage:	ОК
Seals ODE type:	N/A		
Seals ODE size:		Bushings/sleeves DE:	Ok
Seals ODE (inbound) condition :		Bushings/sleeves ODE:	Ok
Endbell fits/damage:	Bad	Foot/Flange condition:	Ok
Endbell DE size:	7.4822	Foot flatness:	Pass
Endbell DE insulated?:	_		stomer or EASA spec(<10%
Endbell ODE size:	5.5138	variation)?	
Endbell ODE insulated?:	_		

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Conclusion

Component Failure

Cause of Failure

Comments

Both end bells are oversized, DE bearing shows signs of contamination, ODE bearing shows signs of wear. Recommend reconditioning, new bearings, and machine work on both end bells.

Service Tech name:

Chris Wiley

Service Tech signature:

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