



AC Inspection as Found Welspun Tubular (11685)

9301 Frazier Pike Little Rock, AR 72206

FolderID: 103634 FormID: 21947538

AC Inspection - Rev. 2

LR MOTORSHOP Location: Serial Number: CAT: H0150V2SLG

Description: 150HP US MOTORS 1780RPM

Hi-Speed Job Number:	103634
Manufacturer:	US Motors/Nidec
Product Number:	M: DN11
Spec/ID #:	A047712362-009 R 0004
Serial Number:	CAT: H0150V2SLG
HP/kW:	150 (HP)
RPM:	1780 (RPM)
Frame:	H444TP
Voltage:	460
Current:	164 (Amps)
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.15
Enclosure:	WPI
# of Leads:	6
J-box Included:	None
Coupling/Sheave:	None
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	No
Shaft Machined Fit Repairs Required:	Yes
Bearing Housing Machined Fit Repairs Required:	Yes
Heaters:	Yes
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 3 - High





6 - Good

Overall Condition

0

10/21/2024

Report Date







3. Photos of all six sides of the machine.





P45







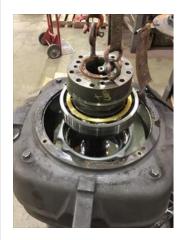




































Heater ohms

- 4. Describe the Overall Condition of the Equipment as Received Serviceable
- 5. Report Date [COPY]

	Э.	Report Date [COP1]		
In	nitial Mechanical/Electrical			
	6.	Does Shaft Turn Freely?	(Y) Yes	
	7.	Does the shaft require T.I.R in Lathe to identify additional repairs?	(No) No	
	8.	Does Shaft Have Visible Damage?	(No) No	
	9.	Assembled Shaft Runout		
	10.	Assembled Shaft End Play	inches	
	11.	Air Gap Variation <10%		
	12.	Lead Condition	(P) Pass	
	13.	Lead Length	22 Inches	



15. Lead Numbers 1,2,3-7,8,9

16. Frame Condition pass

17. Fan Condition

18. Heater Quantity, Ratings P118

Quantity Volts/Watts Pass/Fail

1 115/192





- 19. Broken or Missing Components
- No connection box.

Initial Electrical Inspection

0



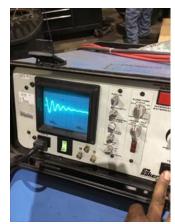
21. Winding Resistance

1-2 1-3 2-3

22. Perform Surge Test(P) PassP57







23. Number of Stator Slots 72

24. Stator Condition rusty but passed surge & Meg

25. Stator Thermistors/Ohms

26. Stator Overloads/Ohms .1

Mechanical Inspection

27. Drive End Bearing Brand FAG



29. Drive End Bearing Qty.

30. Drive End Bearing Type (Thrust) Thrust P51





31.	Drive End Lubrication Type	(Oil) Oil Lubricated	
32.	Drive End Bearing Insulation or Grounding Device?	none	
33.	Drive End Wavy Washer/Snap-Ring Other Retention Device?	none	
34.	Drive End Bearing Condition	replace	
35.	Opposite Drive End Bearing Brand	in- readable	
36.	Opposite Drive End Bearing Number-	6215 J	
37.	Opposite Drive End Bearing Qty.	1	
38.	Opposite Drive End Bearing Type	(Ball) Ball Bearing	
39.	Opposite Drive End Lubrication Type	(Grease) Grease Lubricated	
40.	Opposite Drive End Bearing Insulation or Grounding Device?		
-	Aegis ring attached to bearing cap		
41.	Opposite Drive End Wavy Washer/Snap-Ring Other Retention Device?	snap-ring	
42.	Opposite Drive End Bearing Condition	rusted and worn with cage failure	P119





43.	Drive End Seal	
44.	Opposite Drive End Seal	dust seal

	opposite zinte zina ooa.	4400004	
Rotor I	Inspection		
45.	Rotor Type/Material	(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast	
	Hollow shafted.		
46.	Growler Test	(Pass) Pass	
47.	Number of Rotor Bars	57	
48.	Rotor Condition	pass	
49.	List the Parts needed for the Repair Below		

50. Signature of Technician that Disassembled Motor Terrence Holland

Le Hellen

Mach	anical	Fite-	Rotor

4.3302

56. Drive End Bearing Shaft Fit Condition

Sleeve ODE housing fit.

141	CCIIa	ilicai i its- itotoi			
	51.	Shaft Runout			
	52.	Rotor Runout			
		Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing	
	53.	Coupling Fit Closest to Bearing H	ousing		
		0 Degrees	90 Degrees	120 Degrees	
	54.	Coupling Fit Closest to the end of	the Shaft		
		0 Degrees	60 Degrees	120 Degrees	
	55.	Drive End Bearing Shaft Fit			
		0 Degrees	60 Degrees	120 Degrees	

4.3301

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4.3301

(F) Fail

	57.	Opposite Drive End Bearing Shaft	Fit	
		0 Degrees	60 Degrees	120 Degrees
		2.9522	2.9523	2.9523
	-	Minimum allowed		
)	58.	Opposite Drive End Bearing Shaft	Fit Condition	(F) Fail
	59.	Shaft Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
VIe	echai	nical Fits- Bearing Housings		
	60.	Drive End - Endbell Bearing Fit		
		0 Degrees	60 Degrees	120 Degrees
)	61.	Drive End - Endbell Bearing Fit Co	ondition	(P) Pass
	62.	Opposite Drive End - Endbell Bea	ring Fit	
		0 Degrees	60 Degrees	120 Degrees
-	7	Has lip worn in.		
	63.	Opposite Drive End - Endbell Bea	ring Fit Condition	(F) Fail
	64.	Bearing Cap Condition		
		Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	65.	End Bell Air Seal Fits		
		Drive End Air Seal	Opposite Drive End Air Seal	
	66.	List Machine Work Needed Below		
		Sleeve lower end bell housing, and ring.	repair upper and lower bearing shaft fits	s. Replace worn shaft grounding
	67.	Technician		Terrence Holland
	/	T	Al P	
Ro	oot C	ause of Failure		
	68.	Failure locations		
		bearing shaft fit measures too small	was contaminated. Lower bearing hous ll.	ing has lip worn in and upper
	69.	Root cause of failure		
		Water contaminated grease in lowe	r bearing.	
Dy		ic Balance Report		
	70.	Rotor Weight and Balance Grade		
		Rotor Weight	Balance Grade	
	71.	Initial Balance Readings		
		Drive End	Opposite Drive End	

72.	Final Balance Readings		
	Drive End	Opposite Drive End	
73.	Technician		
Mecha	nical Fits- Rotor - Post Repair	•	
74.	Shaft Runout Post Repair		
75.	Rotor Runout Post Repair		
	Drive End Bearing Fit	Rotor Body	Opposite Drive End Bearing
76.	Coupling Fit Closest to Bearing H		
	0 Degrees	90 Degrees	120 Degrees
	0 1 50 1 1	" OL "B + B - :	
77.	Coupling Fit Closest to the end of		400 Damasa
	0 Degrees	60 Degrees	120 Degrees
78.	Drive End Bearing Shaft Fit Post	Renair	
70.	0 Degrees	60 Degrees	120 Degrees
	o Dogicos	oo Dogrood	120 Dogicos
79.	Opposite Drive End Bearing Shaf	t Fit Post Repair	
	0 Degrees	60 Degrees	120 Degrees
	v	9	o
80.	Shaft Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
81.	1 0		
Mecha	nical Fits- Bearing Housings	-	
82.	<u> </u>	·	
	0 Degrees	60 Degrees	120 Degrees
00	0 : 0: 5 5 1 1 1		
83.	Opposite Drive End - Endbell Bea	•	120 Dagger
	0 Degrees	60 Degrees	120 Degrees
84.	Bearing Cap Condition Post Repa	air	
5-7.	Drive End Bearing Cap	Opposite Drive End Bearing Cap	
	Ziiio Ziia Zoaiiiig Oap	opposite Divid Life Boaring Oap	
85.	End Bell Air Seal Fits Post Repair		
	Drive End Air Seal	Opposite Drive End Air Seal	
86.	End Bell Repair Sign-off		
Assem	bly		
87.	QC Check All Parts for Cleanlines	ss Prior to Assembly	
88.	Photograph All Major Component	s prior to assembly	
89.	Final Insulation Resistance Test		
90.	Assembled Shaft Endplay		
91.	Assembled Shaft Runout		

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92.	Test Run Voltage			
	Volts	Volts	Volts	
93.	Test Run Amperage			
	Amps	Amps	Amps	
94.	Drive End Vibration Readings - In	ches Per Second		
	Horizontal	Vertical	Axial	
95.	Opposite Drive End Vibration Rea	adings - Inches Per Second		
	Horizontal	Vertical	Axial	
96.	Ambient Temperature - Fahrenhe	it		
97.	Drive End Bearing Temps - Fahre	enheit		
	5 Minutes	10 Minutes	15 Minutes	
98.	Opposite Drive End Bearing Tem	ps - Fahrenheit		
	5 Minutes	10 Minutes	15 Minutes	
99.	Document Final Condition with Pi	ctures after paint		
100.	Final Pics and QC Review			

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