Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

AC Recondition Repair Report

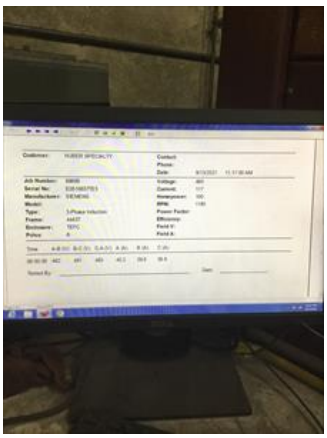
FolderID: 98609
FormID: 11385190

Huber Specialty Hydrates, LLC
(11913)
4750 Alcoa Road
Bauxite, AR 72011

Priorities Found: **1 - High** **15 - Good**

General

1. Job Number **98609** P9



2.	Report Date	**08/18/2021**	
3.	Customer	**HUBER SPECIALTY**	
Name Plate Information			
4.	Manufacturer	**SIEMENS**	
5.	Model	**1LA0446SE41**	
6.	Serial Number	**E0510637TE3**	
7.	Horsepower	**100 HP**	
8.	KW	**KW**	
9.	Volts	**460 Volts**	
10.	Amps	**117 Amps**	
11.	RPM	**1185 RPM**	
12.	Frame	**444T**	
13.	Enclosure	**TEFC**	
14.	Cycles	**60 HZ**	
15.	Phase	**3**	
16.	Service Factor	**1.15**	
17.	Motor Mount Position		
Initial Inspection			
18.	Number of Leads	**6**	P13

19.	Lead Length	**Inches**	
20.	Lead Size		
21.	Lead Condition	**(P) Pass**	
22.	Lead Markings	**1-3**	

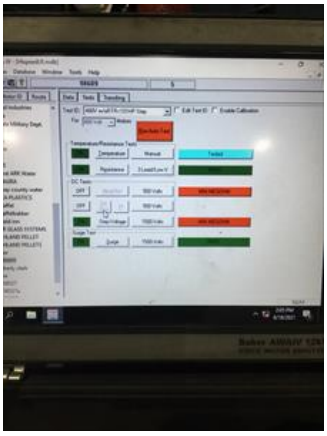
	23.	Lug Size, Condition, and Type		
	24.	Winding RTD's		
	25.	Winding Rtd's Condition		
	26.	Shaft Run Out		
	27.	Does Shaft Turn Freely		
	28.	Does Shaft Have Visible Damage		
	29.	Bearing Rtd's		
	30.	Bearing Rtd's Condition		
	31.	Contamination *Yes*		
●	32.	Frame Condition	**(P) Pass**	
●	33.	Fan Condition	**(P) Pass**	P109

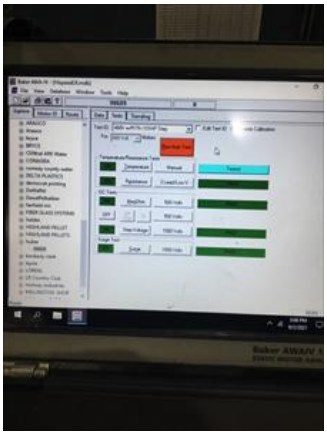
	34.	Broken or missing components		

Initial Electric Test

	35.	Resistance to Ground		
	36.	Winding Resistance 1-2		
	37.	Winding Resistance 2-3		
	38.	Winding Resistance 1-3		
	39.	Resistive Imbalance		
	40.	Hi-Pot		

41.	Surge Test	**(P) Pass**	P58





42.	Stator Condition	**pass**
43.	Failure Location	

Initial Rotor Inspection

44.	Rotor Type	**squirrel cage laminate**
45.	Air Gap <10% Variation	
46.	Number of Rotor Bars	
47.	Number of Broken Rotor Bars	**0**
48.	Growler Test	
49.	Rotor Condition	**(P) Pass**

Mechanical Inspection

50.	Bearing Manufacture	**SKF**

51.	Bearing DE Size	**NU 318R**	P15

52.	Bearing DE Type	**roller**	P23

53.	DE Bearing Qty.	**1**	
54.	Bearing ODE Size	**6316-2Z/C3JN**	P43

	55.	Bearing ODE Type	**regular ball bearing**	P53

	56.	ODE Bearing Qty.	**1**	
	57.	Insulated Bearing	**no**	
	58.	Lubrication Type	**grease**	
●	59.	Grease Condition	**(F) Fail**	P74

●	60.	Bearing Retainers	**(Y) Yes**	
	61.	Shaft Grounding Device	**(NA) Not Applicable**	
	62.	DE Seal		
	63.	DE Seal Type/Size		
	64.	ODE Seal		
	65.	ODE Seal Type/Size		

Root Cause of Failure

66.	Component Failure	
67.	Cause of Failure ***Recondition***	
68.	Comments ***D.e. Shaft measures too large by .004***	
69.	Service Technician	**Terrence. Holland**

Machine Fit Inspection Report

●	70.	Shaft Run Out	**(P) Pass**
	71.	Initial Shaft Run Out	**0.001 "**
	72.	Final Shaft Run Out	
●	73.	DE Bearing Shaft Fit	**(P) Pass**
	74.	DE Initial Shaft Bearing Fit Size 1	**3.5451 "**
	75.	DE Initial Shaft Bearing Fit Size 2	**3.545 "**
	76.	DE Initial Shaft Bearing Fit Size 3	**3.5451 "**
	77.	DE Finial Shaft Bearing Fit Size 1	
	78.	DE Finial Shaft Bearing Fit Size 2	
	79.	DE Finial Shaft Bearing Fit Size 3	
	80.	ODE Bearing Shaft Fit	
	81.	ODE Initial Shaft Bearing Fit Size 1	**3.1506 "**
	82.	ODE Initial Shaft Bearing Fit Size 2	**3.1506 "**
	83.	ODE Initial Shaft Bearing Fit Size 3	**3.1505 "**
	84.	ODE Finial Shaft Bearing Fit Size 1	
	85.	ODE Finial Shaft Bearing Fit Size 2	
	86.	ODE Finial Shaft Bearing Fit Size 3	
	87.	DE Air Seal Shaft Fit	
	88.	DE Initial Air Seal Shaft Size	
	89.	DE Final Air Seal Shaft Size	
	90.	ODE Air Seal Shaft Fit	
	91.	ODE Initial Air Seal Shaft Size	
	92.	ODE Final Air Seal Shaft Size	
●	93.	DE Endbell Fit	**(P) Pass**
	94.	DE Initial Endbell Fit Size 1	**7.4809 "**
	95.	DE Initial Endbell Fit Size 2	**7.481 "**
	96.	DE Initial Endbell Fit Size 3	**7.4808 "**
	97.	DE Final Endbell Fit Size 1	
	98.	DE Finial Endbell Fit Size 2	
	99.	DE Final Endbell Fit Size 3	
	100.	DE Endbell Fit Insulated	**(NA) Not Applicable**
	101.	DE Endbell Air Seal Fit	
	102.	Initial Endbell Air Seal Fit Size	
	103.	Finial Endbell Air Seal Fit Size	
●	104.	ODE Endbell Fit	**(P) Pass**

105.	ODE Initial Endbell Fit Size 1	**6.6932 "**
106.	ODE Initial Endbell Fit Size 2	**6.6934 "**
107.	ODE Initial Endbell Fit Size 3	**6.6935 "**
108.	ODE Final Endbell Fit Size 1	**"**
109.	ODE Final Endbell Fit Size 2	
110.	ODE Final Endbell Fit Size 3	
111.	ODE Endbell Fit Insulated	**(NA) Not Applicable**
112.	ODE Endbell Air Seal Fit	
113.	ODE Initial Endbell Seal Fit Size	
114.	ODE Finial Endbell Seal Fit Size	
115.	Foot Flatness	**(P) Pass**
116.	Foot Condition	**(P) Pass**
117.	Flange Condition	**(NA) Not Applicable**
118.	Service Technician	**Terrence. Holland**

Balancing Report

119.	Balance Type	**nema standard**	P6

120.	Balance Operating Speed	
121.	Start Left End	
122.	Start Right End	
123.	Balancing Specification	
124.	Finish Left End	
125.	Finish Right End	
126.	Service Technician	**Terrence. Holland**

Assembly and Final Test

	127.	Meggar Testing Reading	**Mohm**	
●	128.	Surge Test	**(P) Pass**	
	129.	Hi-Pot		
	130.	Winding Resistance 1-2		
	131.	Winding Resistance 2-3		
	132.	Winding Resistance 1-3		
	133.	Test Run Voltage Phase A		
	134.	Test Run Amps A		
	135.	Test Run Voltage Phase B		
	136.	Test Run Amps B		
	137.	Test Run Voltage Phase C		
	138.	Test Run Amps C		
	139.	DE Horizontal Vibration Reading		
	140.	DE Vertical Vibration Reading		
	141.	DE Axial Vibration Reading		
	142.	ODE Horizontal Vibration Reading		
	143.	ODE Vertical Vibration Reading		
	144.	ODE Axial Vibration Reading		
	145.	Ambient Temp at start of Test Run		
	146.	Temp at 5 minutes		
	147.	Temp at 10 minutes		
	148.	Temp at 15 minutes		
	149.	Temp at 20 minutes		
	150.	Temp at 25 minutes		
	151.	Temp at 30 minutes		
	152.	Temp at 35 minutes		
	153.	Temp at 40 minutes		
	154.	Temp at 45 minutes		
	155.	Temp at 50 minutes		
	156.	Temp at 55 minutes		
	157.	Temp at 60 minutes	**Degrees F.**	
●	158.	Motor Paint	**(P) Pass**	P136

	159.	Service Technician	**Terrence. Holland**