

## AC Inspection as Found US Vanadium 6105 Cynamide

Benton, AR 72015

Location:	Shop
Serial Number:	

Description:1 HP WITH BRAKE

Hi-Speed Job Number:	102674
Manufacturer:	Baldor
Spec/ID #:	35Z659T65961
Serial Number:	F1708172306
HP/kW:	1 (HP)
RPM:	1725 (RPM)
Frame:	56CZ
Voltage:	460
Current:	.17
Phase:	Three
Hz:	60 (Hz)
Service Factor:	1.00
Enclosure:	TENV
# of Leads:	6
J-box Included:	Complete
Coupling/Sheave:	None
Date Received:	03/20/2024
Bearing RTDs:	No
Stator RTDs:	No
Repair Stage:	Final
Rewind:	Yes
Shaft Machined Fit Repairs Required:	No
Bearing Housing Machined Fit Repairs Required:	No
Heaters:	No
Winding Type :	Random Wound
Bearing Type:	Rolling Element

Priorities Found: 🔵 1 - High

10 - Good

**Overall Condition** 

Report Date 1.

03/26/2024

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

> FolderID: 102674 FormID: 19819172













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	4.	4. Describe the Overall Condition of the Equipment as Received				
		Needs rewind and bearings				
In	itial I	Mechanical/Electrical				
	5.	Does Shaft Turn Freely?			(Y) Yes	
	6.	Does the shaft require T.I.R in La	the to identify additional repairs?		(No) No	
	7.	Does Shaft Have Visible Damage	?		(No) No	
	8.	Assembled Shaft Runout			0.001 Inches	
	9.	Assembled Shaft End Play			inches	
		Na				
	10.	Air Gap Variation <10%			n	
	•	Na				
	11.	Lead Condition			(P) Pass	
	12.	Lead Length			8 Inches	
	13.	Does it have Lugs?, If so what is	the Stud Size?		(No) No	
	14.	Lead Numbers			123 11 12 13	
	15.	Frame Condition			good	
	16.	Fan Condition			(P) Pass	
	17.	Broken or Missing Components			no	
In	Initial Electrical Inspection					
	18.	Insulation Resistance/Megger			0 Megohms	
	19.	Winding Resistance				
		1-2	1-3	2-3		
		0	0	0		

	20.	Perform Surge Test		(F) Fail		
	21.	Number of Stator Slots		36		
	22.	Stator Condition		rewind		
	23.	Stator Thermistors/Ohms				
		Na				
	24.	Stator Overloads/Ohms		0.2		
Me	echai	nical Inspection				
	25.	Drive End Bearing Brand		ntn		
	26.	Drive End Bearing Number-		6205z		
	27.	Drive End Bearing Qty.		1		
	28.	Drive End Bearing Type		(Ball) Ball Bearing		
	29.	Drive End Lubrication Type		(Grease) Grease Lubricated		
	30.	Drive End Bearing Insulation of	r Grounding Device?	no		
	31.	Drive End Wavy Washer/Snap	-Ring Other Retention Device?	no		
	32.	Drive End Bearing Condition		worn		
	33.	Opposite Drive End Bearing B	rand	nsk		
	34.	Opposite Drive End Bearing N	umber-	6203z		
	35.	Opposite Drive End Bearing Q	ty.	1		
	36.	Opposite Drive End Bearing T	уре	(Ball) Ball Bearing		
	37.	Opposite Drive End Lubrication	п Туре	(Grease) Grease Lubricated		
	38.	Opposite Drive End Bearing In	sulation or Grounding Device?	no		
	39.	Opposite Drive End Wavy Was	sher/Snap-Ring Other Retention Device	e? no		
	40.	Opposite Drive End Bearing C	ondition	worn		
	41.	Drive End Seal				
		Na				
	42.	Opposite Drive End Seal				
		Na				
Ro	otor I	nspection				
	43.	Rotor Type/Material		(Squirrel Aluminum) Squirrel Cage Aluminum Die Cast		
	44.	Growler Test		(Pass) Pass		
	45.	Number of Rotor Bars		48		
	46.	Rotor Condition		good		
	47.	List the Parts needed for the R	epair Below			
		6205z 6203z				
	48.	Signature of Technician that D	isassembled Motor	Trevor Hall		
	-					
		/_	- All			
64	Machanical Fito Deter					
IVI		Shoft Pupert		0.004 inch		
	49.	Shart Runout		0.001 inches		
	50.		Defer Dedu			
		Drive End Bearing Fit	ROTOL RODÀ	Opposite Drive End Bearing		

	51.	Coupling Fit Closest to Bearing Housing				
		0 Degrees	90 Degrees	120 Degrees		
		0.6247	0.6247	0.6247		
	52.	Coupling Fit Closest to the end of	the Shaft			
		0 Degrees	60 Degrees	120 Degrees		
		0.6246	0.6246	0.6246		
	53.	Drive End Bearing Shaft Fit				
		0 Degrees	60 Degrees	120 Degrees		
		0.9846	0.9846	0.9846		
	54.	Drive End Bearing Shaft Fit Condi	tion		(P) Pass	
	55.	Opposite Drive End Bearing Shaft	Fit			
		0 Degrees	60 Degrees	120 Degrees		
		0.6693	0.6694	0.6693		
	56.	Opposite Drive End Bearing Shaft	Fit Condition		(P) Pass	
	57.	Shaft Air Seal Fits				
		Drive End Air Seal	Opposite Drive End Air Seal			
	•	Na				
Μ	echa	nical Fits- Bearing Housings				
	58.	Drive End - Endbell Bearing Fit				
		0 Degrees	60 Degrees	120 Degrees		
		2.0477	2.0477	2.0477		
	59.	Drive End - Endbell Bearing Fit Co	ondition		(P) Pass	
	60.	Opposite Drive End - Endbell Bea	ring Fit			
		0 Degrees	60 Degrees	120 Degrees		
		1.5752	1.5752	1.5752		
	61.	Opposite Drive End - Endbell Bea	ring Fit Condition		(P) Pass	
	62.	Bearing Cap Condition				
		Drive End Bearing Cap	Opposite Drive End Bearing Cap			
		pass				
	63.	End Bell Air Seal Fits				
		Drive End Air Seal	Opposite Drive End Air Seal			
	•	Na				
	64.	List Machine Work Needed Below				
	65	Tachnician				
	65.	Technician				
			7			
-						
R	oot C					
	00.	Failure locations				
	67	Poot cause of failure				
	07.	Shorted turn to turn				

Dynam	nic Balance Report					
68.	Rotor Weight and Balance Grade					
	Rotor Weight	Balance Grade				
69.	Initial Balance Readings					
	Drive End	Opposite Drive End				
70.	Final Balance Readings					
	Drive End	Opposite Drive End				
	- · · ·					
/1.	l echnician				-	-
Rewin	d	n Devued			C	
72.	Core l'est Results - watts loss pe	Pound				
	Pre-Burnout	Post Burnout				
72	Coro Hot Spot Tost					
73.	Bro Burpout	Post Rurpout				
	Fle-Bulllout	FOST-Dumout				
74.	Post Rewind Electrical Test- Insu	lation Resistance			Megohms	P40
	The second s					
Rendel Banden Santo Harry Bandra	- 0 x		addard)	2		
······································				West P 10 1 March 1		
Sector and Sector Line Test Date	Ballion         Description         Description <thdescrip< th=""> <thdescrip< th="">         Descrip</thdescrip<></thdescrip<>		The State State State State	n Ref. And		
- Desarction	Tanan Kanan Kanan Kanan Kanan		ar Call Street Real for St. of Allow St. Call Street Real for St. of Allow St. Call Street Real for St. Street Real for St. St. St. St. St. St. St. St. St. St. St.	COLLEGE ALS AUDITER ALS NEL COLLEGE ALS AND ADDRESS A		
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CALCERSON When Fachers & St. Care Limited	B. B. Levin, M. B. B. Levin, N. T. T. B. Der L. L.           B. B. B. B. Levin, L. B. L.		Charter Charte	and the second s		
A MARTINE			· · · · · · · · · · · · · · · · · · ·	ne log (* besterning) Seat		
-	Balaye AWAIV, IZAV			Burking AWAIN 122W		
the second						
(100) [ 100] [ 100]	Normalian State St					
The form	Application					
IN Call 1 Chart						
in term	Li di					
	Balar AWAIV 120V					
75	Deet Deutie d Delevier (* 1977)					
75.	Post Rewind Polarization Index					





78. Post Rewind Hi-Pot

micro-amps

## 79. Technician

First test H speed. Second test L speed







## Assembly

80. QC Check All Parts for Cleanliness Prior to Assembly

**Terrence Holland** 







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Rhr Ztw

81. Photograph All Major Components prior to assembly





82.	Final Insulation Resistance Test	
83.	Assembled Shaft Endplay	
84.	Assembled Shaft Runout	
85.	Test Run Voltage	
	Volts	Volts

Witness RW





Volts

11,12,13



1,2,3

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96	Test Pup Amperado			
00.				
	Amps	Amps	Amps	
	0.7	0.8	0.8	
87.	Drive End Vibration Readings - Ir	nches Per Second		
	Horizontal	Vertical	Axial	
88.	Opposite Drive End Vibration Rea	adings - Inches Per Second		
	Horizontal	Vertical	Axial	
89.	Ambient Temperature - Fahrenhe	Pit		
90.	0. Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
91.	. Opposite Drive End Bearing Temps - Fahrenheit			
	5 Minutes	10 Minutes	15 Minutes	
92.	Document Final Condition with Pi	ictures after paint		P128
and the second sec				
	A CONTRACTOR OF THE OWNER			
Server of				

93. Final Pics and QC Review

T- John

Witness: CW

**Terrence Holland** 





