

PROBLEM SUMMARY

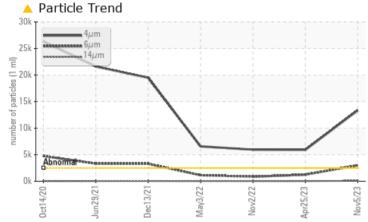
PR

Marcus Hook/Cryogenic/Compressor Machine Id CRYOGENIC COMPRESSOR 40-C-102F

Rotary Compressor

FRICK COMPRESSOR OIL #12B (825 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

		- Birth							
******	A REAL PROPERTY AND IN COLUMN	i.							
c.	2	5							
25/2	2	Nov5/2							
Δnr75/73		No							
ROB	OBLEMATIC TEST RESULTS								
	Chatura								
npie	Status								
icles	s >4µm								

Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>2500	<u> </u>	▲ 5928	<u> </u>
Particles >6µm	ASTM D7647	>320	A 2997	1 240	A 861
Particles >14µm	ASTM D7647	>80	<mark>/</mark> 89	29	32
Oil Cleanliness	ISO 4406 (c)	>18/15/13	A 21/19/14	🔺 20/17/12	🔺 20/17/12

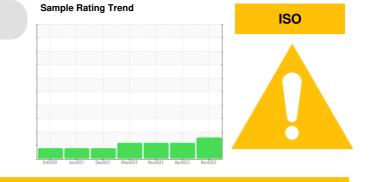
Customer Id: ETCMHOOK Sample No.: TO60001826 Lab Number: 05999969 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com



RECOMMENDED AC	ECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Change Filter			?	We recommend you service the filters on this component if applicable.			

HISTORICAL DIAGNOSIS



25 Apr 2023 Diag: Don Baldridge

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

02 Nov 2022 Diag: Don Baldridge



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03 May 2022 Diag: Don Baldridge

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OIL ANALYSIS REPORT

Marcus Hook/Cryogenic/Compressor **CRYOGENIC COMPRESSOR 40-C-102F** Component

Rotary Compressor

FRICK COMPRESSOR OIL #12B (825 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

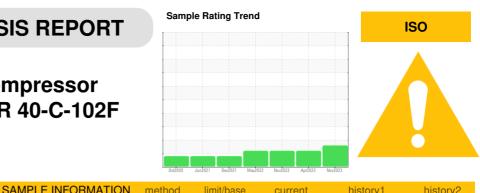
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

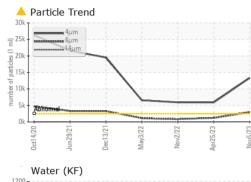
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

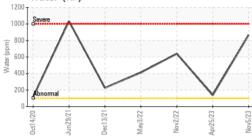


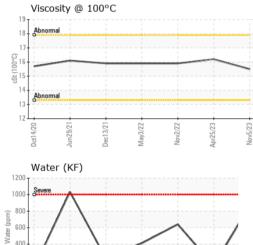
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60001826	TO90003051	TO90002758
Sample Date		Client Info		05 Nov 2023	25 Apr 2023	02 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>70	1	2	2
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	7.0	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>4	0	0	<1
Copper	ppm	ASTM D5185m	>20	0	0	0
Tin	ppm	ASTM D5185m	>3	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	nom	ASTM D5185m		0	0	2
Barium	ppm ppm	ASTM D5185m		0	0	0
		ASTM D5185m		0	0	0
Molybdenum	ppm			0	0	0
Manganese	ppm	ASTM D5185m				0
Magnesium	ppm	ASTM D5185m		<1 4	<1 2	0
Calcium	ppm	ASTM D5185m				
Phosphorus	ppm	ASTM D5185m		11	10	26
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	7	7	7
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m	>20		4	<1
				0	<1	
Water	%	ASTM D6304		0 0.086	<1 0.013	0.064
Water	% ppm	ASTM D6304		0.086	0.013	0.064
Water ppm Water	% ppm	ASTM D6304 ASTM D6304	>0.6	0.086 865.8 current 13352	0.013 137.9 history1 \$ 5928	0.064 640 history2 \$5949
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	% ppm	ASTM D6304 ASTM D6304 method	>0.6 limit/base >2500	0.086 865.8 current 13352 2997	0.013 137.9 history1 ▲ 5928 ▲ 1240	0.064 640 history2 ▲ 5949 ▲ 861
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647	>0.6 limit/base >2500	0.086 865.8 current 13352	0.013 137.9 history1 ▲ 5928 ▲ 1240 29	0.064 640 history2 5949 861 32
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	% ppm	ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>0.6 limit/base >2500 >320 >80	0.086 865.8 current 13352 2997	0.013 137.9 history1 ▲ 5928 ▲ 1240	0.064 640 history2 ▲ 5949 ▲ 861
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>0.6 limit/base >2500 >320 >80	0.086 865.8	0.013 137.9 history1 ▲ 5928 ▲ 1240 29	0.064 640 history2 5949 861 32
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647	>0.6 limit/base >2500 >320 >80 >20 >4	0.086 865.8	0.013 137.9 history1 ▲ 5928 ▲ 1240 29 6	0.064 640 history2 5949 5949 32 6
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	% ppm	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.6 limit/base >2500 >320 >80 >20 >4	0.086 865.8	0.013 137.9 history1 ▲ 5928 ▲ 1240 29 6 1	0.064 640 history2 ▲ 5949 ▲ 861 32 6 0
Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	% ppm ESS	ASTM D6304 ASTM D6304 Method ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>0.6 limit/base >2500 >320 >80 >20 >4 >3	0.086 865.8 current ▲ 13352 ▲ 2997 ▲ 89 13 0 0	0.013 137.9 history1 ▲ 5928 ▲ 1240 29 6 1 1 0	0.064 640 history2 ▲ 5949 ▲ 861 32 6 0 0 0

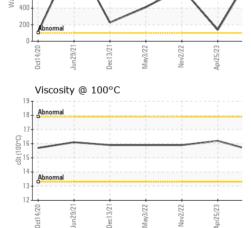


OIL ANALYSIS REPORT







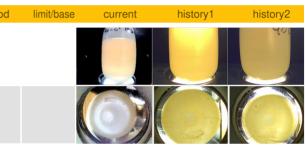


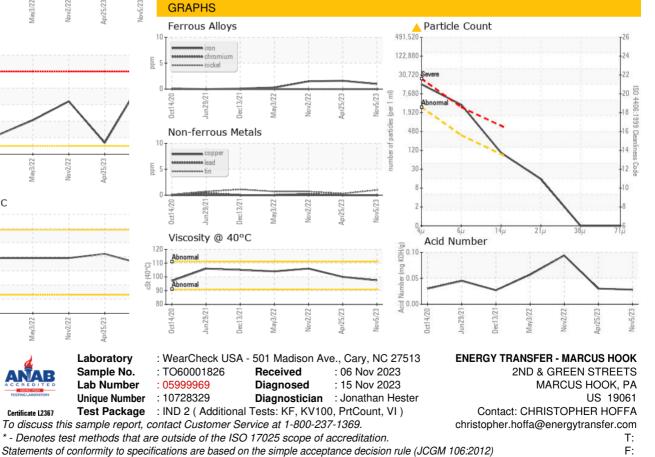
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		97.5	100	106
Visc @ 100°C	cSt	ASTM D445		15.5	16.2	15.9
Viscosity Index (VI)	Scale	ASTM D2270		168	174	160
SAMPLE IMAGES	method	limit/base	current	history1	history2	
Onlar				10-C- 172		400
Color						









Certificate L2367

Submitted By: ERIC THORNTON

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