

PROBLEM SUMMARY

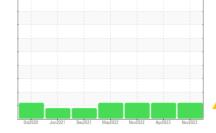
Sample Rating Trend

ISO

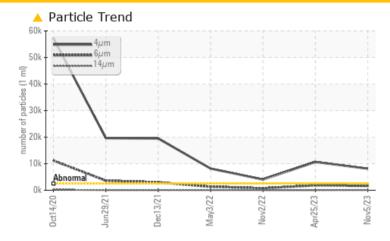
Marcus Hook/Cryogenic/Compressor **CRYOGENIC COMPRESSOR 40-C-102C**

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.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL				
Particles >4µm	ASTM D7647	>2500	A 8134	<u>▲</u> 10650	<u>4056</u>				
Particles >6µm	ASTM D7647	>320	1636	<u> </u>	△ 763				
Oil Cleanliness	ISO 4406 (c)	>18/15/13	20/18/13	<u>\</u> 21/18/12	1 9/17/12				

Customer Id: ETCMHOOK Sample No.: TO60001831 Lab Number: 05999957 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

RECOMMENDED 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: Jonathan Hester





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.



02 Nov 2022 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.

03 May 2022 Diag: Don Baldridge



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OIL ANALYSIS REPORT

Sample Rating Trend



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

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.

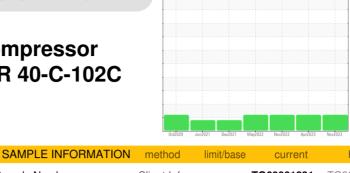
All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

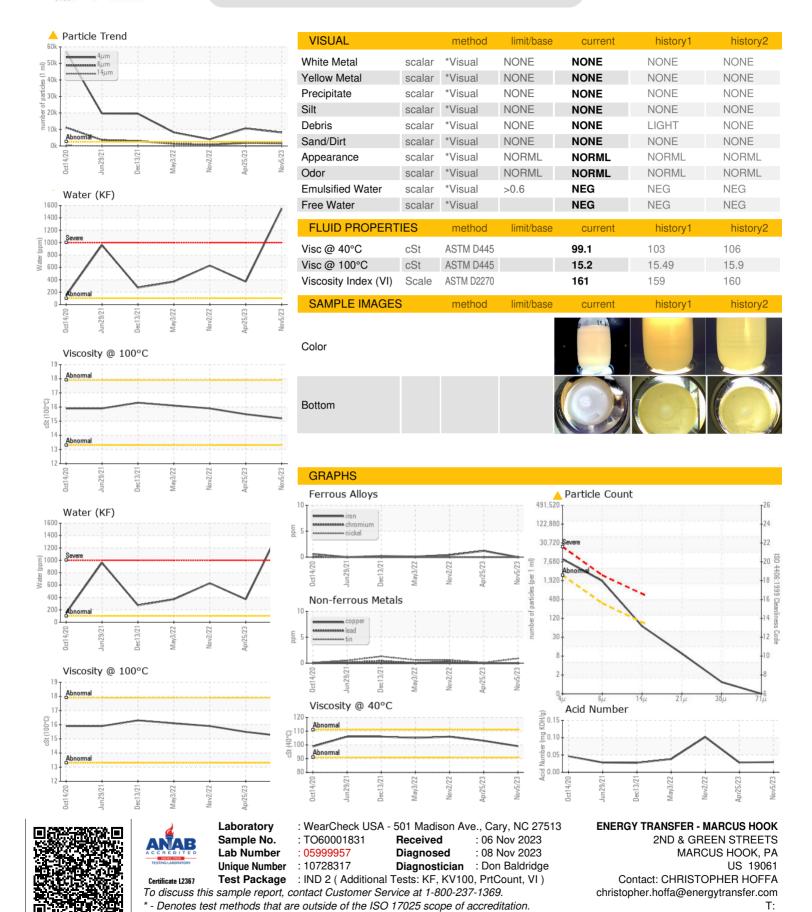
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



Sample Number		Client Info		TO60001831	TO90003043	TO90002752
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	0	1	<1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		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		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		2	0	0
Phosphorus	ppm	ASTM D5185m		9	9	27
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		8	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	5	5	5
Sodium	ppm	ASTM D5185m		2	3	2
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.6	0.154	0.036	0.063
ppm Water	ppm	ASTM D6304		1549.8	369.7	630
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	A 8134	<u> </u>	4 056
Particles >6µm		ASTM D7647	>320	1636	<u>▲</u> 1850	▲ 763
Particles >14µm		ASTM D7647	>80	60	33	33
Particles >21µm		ASTM D7647	>20	8	4	7
Particles >38μm		ASTM D7647	>4	1	1	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15/13	<u>^</u> 20/18/13	<u>\$\lambda\$\$ 21/18/12</u>	△ 19/17/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.029	0.028	0.102



OIL ANALYSIS REPORT



* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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