

## **PROBLEM SUMMARY**

### Sample Rating Trend

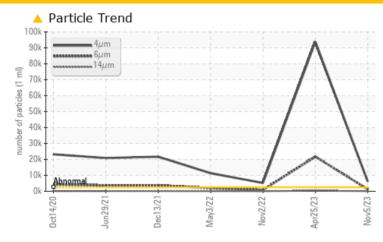
ISO

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

**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	<u> </u>	<b>△</b> 93850	<u></u> 5214				
Particles >6µm	ASTM D7647	>320	<b>1256</b>	<u></u> 21709	<b>▲</b> 839				
Oil Cleanliness	ISO 4406 (c)	>18/15/13	<b>20/17/12</b>	<b>24/22/16</b>	<b>2</b> 0/17/12				

Customer Id: ETCMHOOK Sample No.: TO60001838 Lab Number: 05999955 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 ihester@wearcheckusa.com

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: 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 particulates 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.

# View report

#### 03 May 2022 Diag: Don Baldridge

ISO



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.





## **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method

Sample Rating Trend



history1

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

**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.

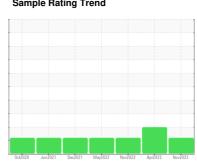
All component wear rates are normal.

#### 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 INFORM	IATION	method	ilmit/base	current	nistory i	nistory2
Sample Number		Client Info		TO60001838	TO90003040	TO90002769
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	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	1	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	ppm	ASTM D5185m		0	0	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	<1	<1
Calcium	ppm	ASTM D5185m		1	3	0
Phosphorus	ppm	ASTM D5185m		11	10	31
Zinc	ppm	ASTM D5185m		0	<1	0
Sulfur	ppm	ASTM D5185m		6	<1	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	5	6	6
Sodium	ppm	ASTM D5185m		4	4	5
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.6	0.082	0.024	0.074
ppm Water	ppm	ASTM D6304		827.7	240.8	740
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<u></u> 6122	<b>93850</b>	<u>▲</u> 5214
Particles >6µm		ASTM D7647	>320	<u> </u>	<u>^</u> 21709	<b>▲</b> 839
Particles >14µm		ASTM D7647	>80	40	<b>▲</b> 396	32
Particles >21µm		ASTM D7647	>20	8	<u>^</u> 29	7
Particles >38μm		ASTM D7647	>4	0	1	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15/13	<u>^</u> 20/17/12	<u>4</u> 24/22/16	<u>^</u> 20/17/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.04

Acid Number (AN)

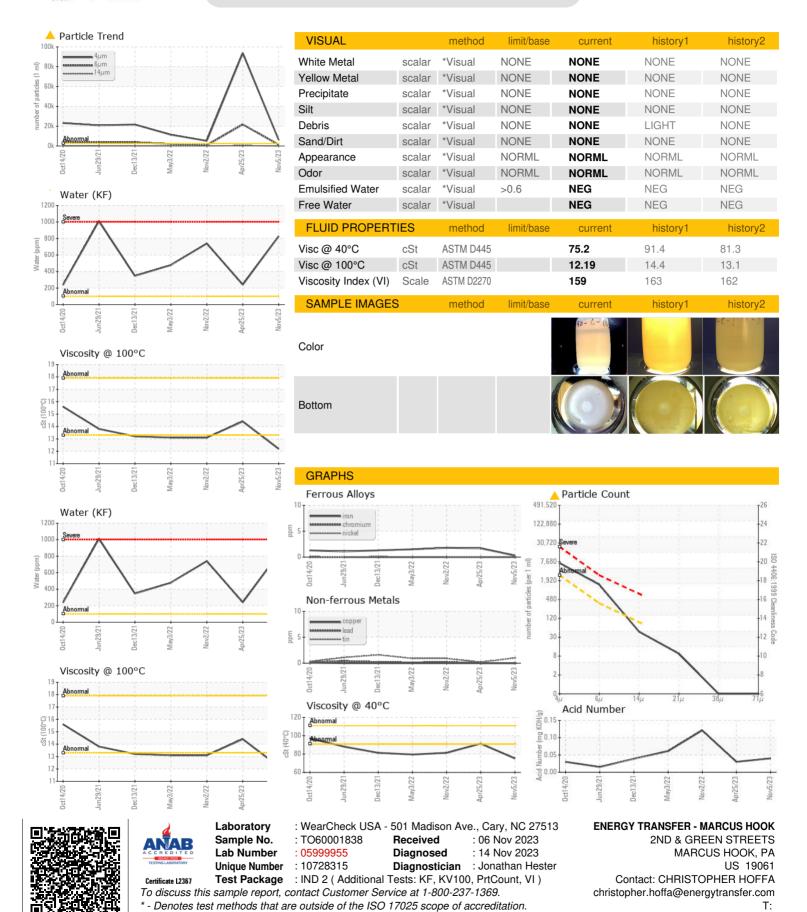
mg KOH/g ASTM D8045

0.03

0.121



## 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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