

## **PROBLEM SUMMARY**

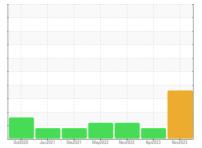
Sample Rating Trend

**WATER** 

# Marcus Hook/Cryogenic/Compressor **CRYOGENIC COMPRESSOR 10-C-101B**

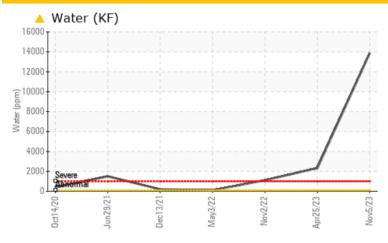
**Rotary Compressor** 

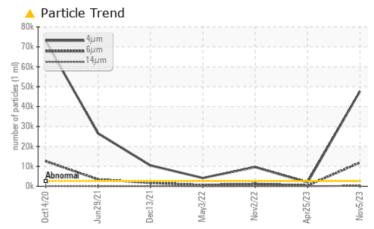
**NOT GIVEN (550 GAL)** 





## **COMPONENT CONDITION SUMMARY**





## RECOMMENDATION

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

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	ATTENTION	ABNORMAL	
Water	%	ASTM D6304	>0.6	<b>1.388</b>	0.232	0.111	
ppm Water	ppm	ASTM D6304		<b>13880</b>	2327.2	1110	
Particles >4µm		ASTM D7647	>2500	<b>47700</b>	1935	<b>△</b> 9608	
Particles >6µm		ASTM D7647	>320	<u> </u>	<b>▲</b> 348	<u> </u>	
Particles >14µm		ASTM D7647	>80	<u>^</u> 291	14	17	
Particles >21µm		ASTM D7647	>20	<b>△</b> 34	3	4	
Oil Cleanliness		ISO 4406 (c)	>18/15/13	<u>23/21/15</u>	<u> 18/16/11</u>	<u>^</u> 20/17/11	

Customer Id: ETCMHOOK Sample No.: TO60001833 Lab Number: 05999951 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.

## HISTORICAL DIAGNOSIS

## 25 Apr 2023 Diag: Jonathan Hester



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate 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: 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.



### 03 May 2022 Diag: Don Baldridge

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate 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

Sample Rating Trend



# Marcus Hook/Cryogenic/Compressor CRYOGENIC COMPRESSOR 10-C-101B

**Rotary Compressor** 

**NOT GIVEN (550 GAL)** 

## **DIAGNOSIS**

#### Recommendation

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

All component wear rates are normal.

## Contamination

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

## **Fluid Condition**

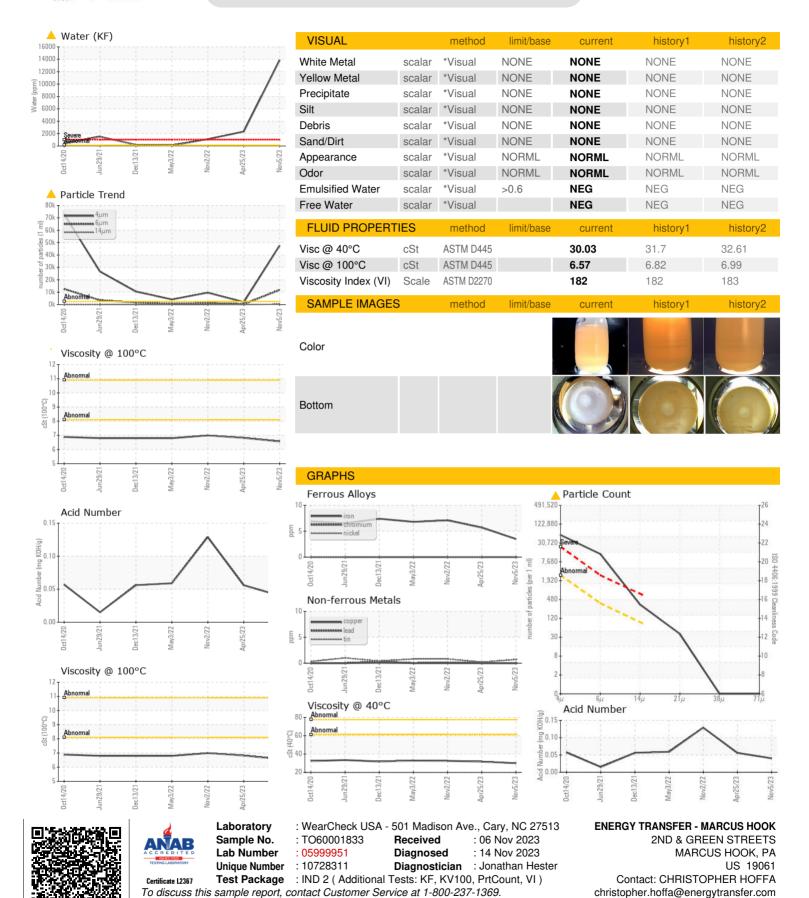
The AN level is acceptable for this fluid.

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Oct2020	Jun2021	Dec2021	May2022	Nov2022	Apr2023	Nov202
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Sample Number		Client Info		TO60001833	TO90003033	TO90002762
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	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>70	4	6	7
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		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		10	10	8
Phosphorus	ppm	ASTM D5185m		12	10	30
Zinc	ppm	ASTM D5185m		0	3	0
Sulfur	ppm	ASTM D5185m		4	<1	0
CONTAMINANTS	<b>,</b>	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	9	11	12
Sodium	ppm	ASTM D5185m		<1	1	2
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.6	<u> </u>	0.232	0.111
ppm Water	ppm	ASTM D6304		<u> </u>	2327.2	1110
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>47700</b>	1935	<b>9608</b>
Particles >6µm		ASTM D7647	>320	<u> </u>	<u></u> 448 ∆	<u>▲</u> 1173
Particles >14μm		ASTM D7647	>80	<u>291</u>	14	17
Particles >21µm		ASTM D7647	>20	<u>^</u> 34	3	4
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>23/21/15</u>	<b>△</b> 18/16/11	<u>^</u> 20/17/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.04	0.056	0.129



## **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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