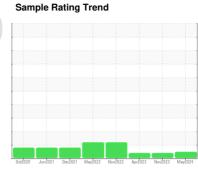


# **OIL ANALYSIS REPORT**

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

**Rotary Compressor** 

FRICK COMPRESSOR OIL #12B (825 GAL)





### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable.

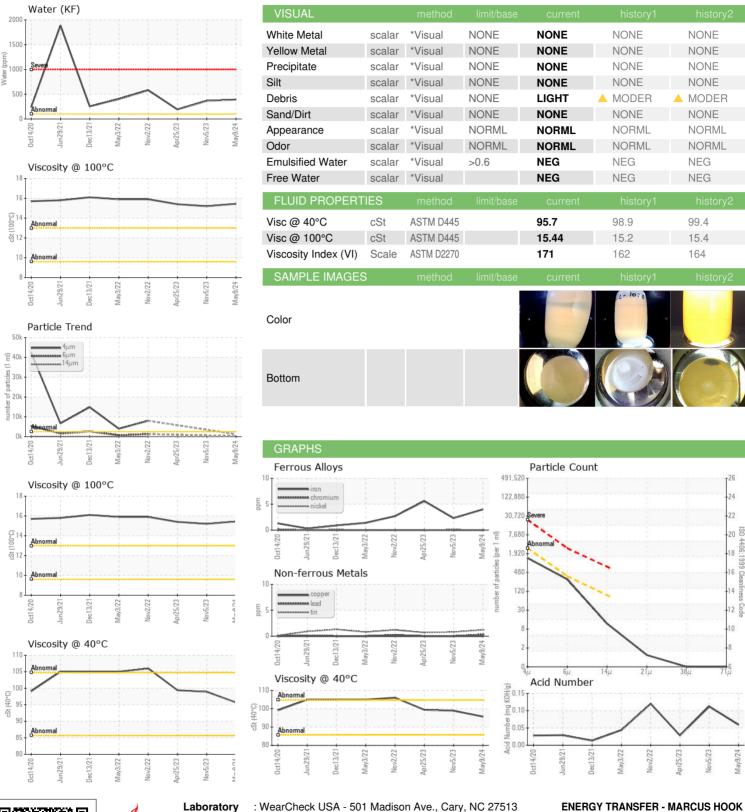
### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in

		0ct2020 J	Jun2021 Dec2021 May20	22 Nov2022 Apr2023 Nov2023	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90002161	TO60001818	TO90003054
Sample Date		Client Info		09 May 2024	05 Nov 2023	25 Apr 2023
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				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>70	4	2	6
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>4	<1	0	0
Copper	ppm	ASTM D5185m	>20	0	0	0
Tin	ppm	ASTM D5185m	>3	1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
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		0	<1	<1
Calcium	ppm	ASTM D5185m		0	7	8
Phosphorus	ppm	ASTM D5185m		0	17	10
Zinc	ppm	ASTM D5185m		0	0	4
Sulfur	ppm	ASTM D5185m		0	0	20
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	4	5	6
Sodium	ppm	ASTM D5185m		2	1	3
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.6	0.039	0.036	0.019
ppm Water	ppm	ASTM D6304		392	365.4	192.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	1223		
Particles >6µm		ASTM D7647	>320	255		
Particles >14µm		ASTM D7647	>80	10		
Particles >21µm		ASTM D7647	>20	1		
Particles >38μm		ASTM D7647	>4	0		
Particles >71µm		ASTM D7647	>3	0		
Oil Cleanliness		ISO 4406 (c)	>18/15/13	17/15/10		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.059	0.112	0.028



## OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

: TO90002161 : 06182909 Unique Number : 11034235

Received : 17 May 2024 **Tested** 

: 28 May 2024 Diagnosed : 28 May 2024 - Angela Borella Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

US 19061 Contact: CHRISTOPHER HOFFA christopher.hoffa@energytransfer.com

 $^st$  - 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)

Report Id: ETCMHOOK [WUSCAR] 06182909 (Generated: 05/28/2024 17:52:11) Rev: 1

Submitted By: ERIC THORNTON

2ND & GREEN STREETS

MARCUS HOOK, PA

T:

F: