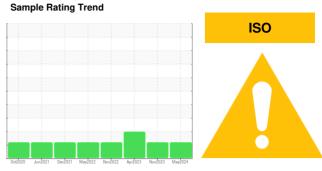


# **OIL ANALYSIS REPORT**

# 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.

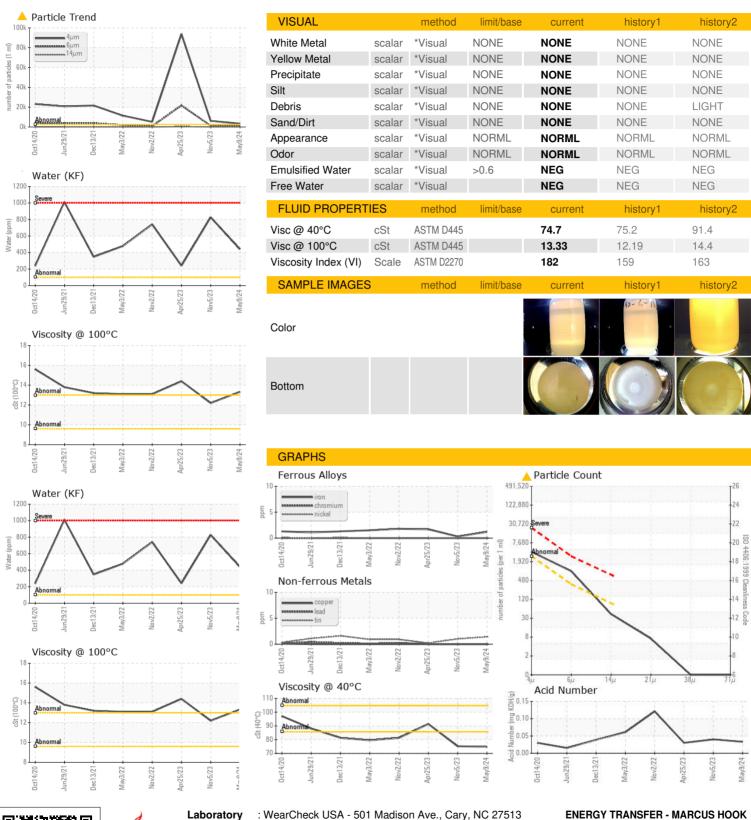
### **Fluid Condition**

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

		0ct2020 v	lun2021 Dec2021 May20	22 Nov2022 Apr2023 Nov2023	I May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90002100	TO60001838	TO90003040
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				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>70	1	<1	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	1
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>4	0	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	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	<1	<1
Calcium	ppm	ASTM D5185m		0	1	3
Phosphorus	ppm	ASTM D5185m		0	11	10
Zinc	ppm	ASTM D5185m		0	0	<1
Sulfur	ppm	ASTM D5185m		0	6	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	5	5	6
Sodium	ppm	ASTM D5185m		4	4	4
Potassium	ppm	ASTM D5185m	>20	<1	0	<1
Water	%	ASTM D6304	>0.6	0.044	0.082	0.024
ppm Water	ppm	ASTM D6304		440	827.7	240.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	3456	<b>△</b> 6122	<b>△</b> 93850
Particles >6µm		ASTM D7647	>320	<u></u> 836	<u>▲</u> 1256	<u>^</u> 21709
Particles >14μm		ASTM D7647	>80	36	40	▲ 396
Particles >21µm		ASTM D7647	>20	6	8	<u>^</u> 29
Particles >38µm		ASTM D7647	>4	0	0	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15/13	<u> </u>	<u>△</u> 20/17/12	<u>4</u> 24/22/16
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.033	0.04	0.03



# OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number

: TO90002100 : 06182920 Unique Number : 11034246

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 May 2024 **Tested** 

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

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

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

2ND & GREEN STREETS

MARCUS HOOK, PA

F: