

# **OIL ANALYSIS REPORT**

## Area Marcus Hook/Cryogenic/Compressor CRYOGENIC COMPRESSOR 10-C-103B

Rotary Compressor

{not provided} (825 GAL)

### DIAGNOSIS

#### Recommendation

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

### Wear

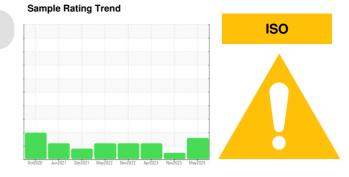
All component wear rates are normal.

#### Contamination

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

#### Fluid Condition

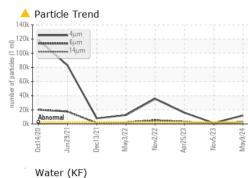
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

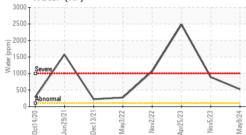


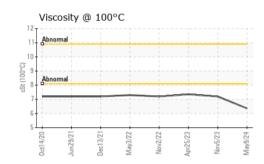
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90002091	TO60001837	TO90003031
Sample Date		Client Info		09 May 2024	05 Nov 2023	25 Apr 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>70	18	18	19
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		<1	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>4	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	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		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	<1	<1
Calcium	ppm	ASTM D5185m		0	14	18
Phosphorus	ppm	ASTM D5185m		0	20	13
Zinc	ppm	ASTM D5185m		0	6	10
Sulfur	ppm	ASTM D5185m		0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	12	11	14
Sodium	ppm	ASTM D5185m		1	<1	<1
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.6	0.052	0.089	0.248
ppm Water	ppm	ASTM D6304		524	893.1	2481.2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>11852</b>	1422	▲ 15832
Particles >6µm		ASTM D7647	>320	<u> </u>	286	<b>A</b> 3199
		ASTM D7647	>80	<b>e</b> 102	8	42
					4	4
Particles >14µm		ASTM D7647	>20	11	1	4
Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647	>20 >4	11 0	0	0
Particles >14μm Particles >21μm Particles >38μm			>4			
Particles >14μm Particles >21μm Particles >38μm Particles >71μm		ASTM D7647	>4	0	0	0
Particles >14µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness	TION	ASTM D7647 ASTM D7647	>4 >3	0 0	0 0	0

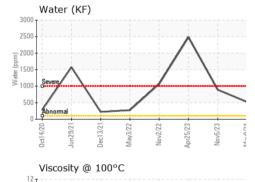


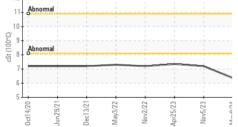
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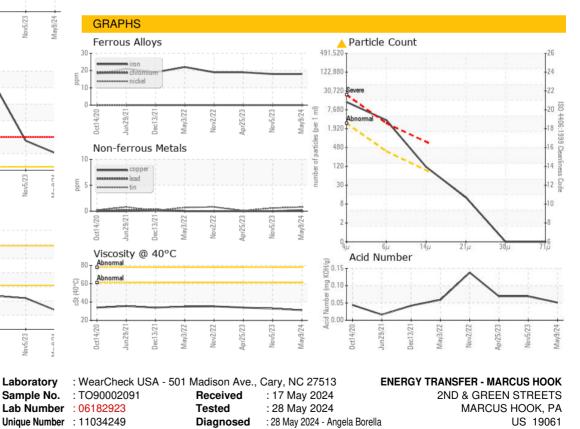






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		31.13	32.9	34.0
Visc @ 100°C	cSt	ASTM D445		6.36	7.2	7.35
Viscosity Index (VI)	Scale	ASTM D2270		161	191	190
SAMPLE IMAGES	5	method	limit/base	current	history1	history2
Color				a		

Bottom



Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI) To discuss this sample report, contact Customer Service at 1-800-237-1369. \* - 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] 06182923 (Generated: 05/28/2024 18:04:22) Rev: 1

Laboratory

Sample No.

Submitted By: ERIC THORNTON Page 2 of 2

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F:

Contact: CHRISTOPHER HOFFA

christopher.hoffa@energytransfer.com