

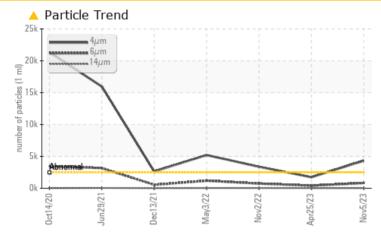
## **PROBLEM SUMMARY**

### Marcus Hook/Cryogenic/Compressor Machine Id CRYOGENIC COMPRESSOR 40-C-101F

**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	ATTENTION	ABNORMAL		
Particles >4µm	ASTM D7647	>2500	<b>4323</b>	1739	<b>3</b> 376		
Particles >6µm	ASTM D7647	>320	<u> </u>	<b>4</b> 13	<u> </u>		
Oil Cleanliness	ISO 4406 (c)	>18/15/13	<b>19/17/12</b>	▲ 18/16/11	▲ 19/17/12		

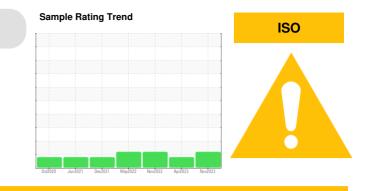
Customer Id: ETCMHOOK Sample No.: TO60001824 Lab Number: 05999946 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



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

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: 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.

03 May 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







## **OIL ANALYSIS REPORT**

CANADI E INICODMATION

### Machine Id Machine Id CRYOGENIC COMPRESSOR 40-C-101F

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.

### Wear

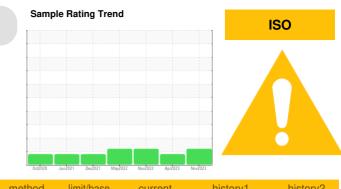
All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

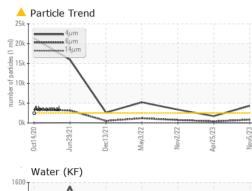
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

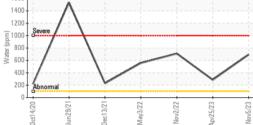


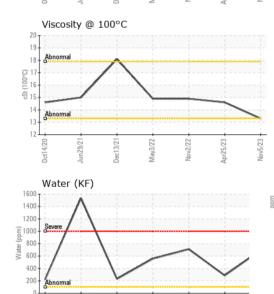
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO60001824	TO90003052	TO90002757
Sample Date		Client Info		05 Nov 2023	25 Apr 2023	02 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>70	1	2	2
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m	210	<1	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	0
Copper	ppm	ASTM D5185m		0	0	0
Tin		ASTM D5185m	>20	۰ <1	0	<1
Vanadium	ppm	ASTM D5185m	>0	< 1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base		history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
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		<1	<1	<1
Calcium	ppm	ASTM D5185m		5	8	<1
Phosphorus	ppm	ASTM D5185m		12	11	30
Zinc	ppm	ASTM D5185m		0	1	0
Sulfur	ppm	ASTM D5185m		40	32	0
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	6	6	7
Sodium	ppm	ASTM D5185m		3	3	4
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.6	0.069	0.028	0.071
ppm Water	ppm	ASTM D6304		694.3	286.5	710
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<b>4323</b>	1739	▲ 3376
Particles >6µm		ASTM D7647	>320	<mark>/</mark> 832	<b>4</b> 13	<b>A</b> 742
Particles >14µm		ASTM D7647	>80	23	15	37
Particles >21µm		ASTM D7647	>20	2	3	6
Particles >38µm		ASTM D7647	>4	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15/13	<b>19/17/12</b>	▲ 18/16/11	▲ 19/17/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.09	0.085	0.12
					0.000	<u>-</u>



# **OIL ANALYSIS REPORT**





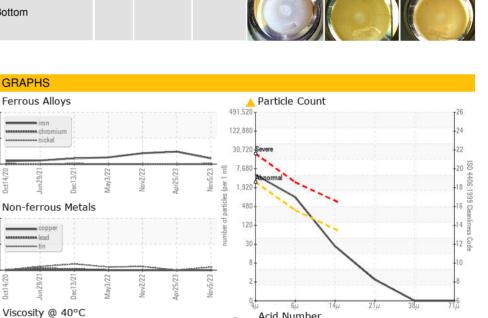


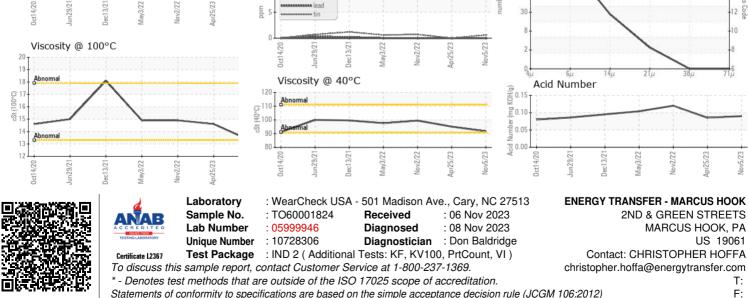
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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		91.7	95.1	99.5
Visc @ 100°C	cSt	ASTM D445		13.3	14.6	14.9
Viscosity Index (VI)	Scale	ASTM D2270		145	159	156
SAMPLE IMAGES		method	limit/base	current	history1	history2
				1011	Street Street	0
Color						

Bottom

0

0ct14/20





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: ERIC THORNTON

Page 4 of 4