

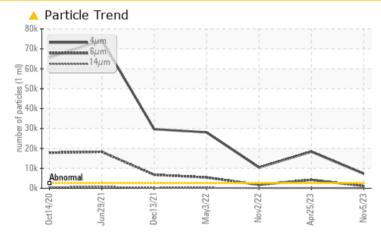
PROBLEM SUMMARY

Marcus Hook/Cryogenic/Compressor Machine Id CRYOGENIC COMPRESSOR 10-C-301A

Rotary Compressor

FRICK COMPRESSOR OIL #12B (385 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	ABNORMAL	ABNORMAL		
Particles >4µm	ASTM D7647	>2500	A 7268	▲ 18324	▲ 10420		
Particles >6µm	ASTM D7647	>320	<u> </u>	4224	1 740		
Oil Cleanliness	ISO 4406 (c)	>18/15/13	<u> </u>	1 /19/14	1 21/18/13		

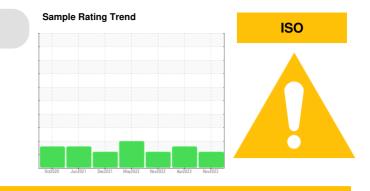
Customer Id: ETCMHOOK Sample No.: TO60001835 Lab Number: 05999950 Test Package: IND 2



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



view report

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 particulates 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

Marcus Hook/Cryogenic/Compressor **CRYOGENIC COMPRESSOR 10-C-301A** Component

Rotary Compressor

FRICK COMPRESSOR OIL #12B (385 GAL)

DIAGNOSIS

Recommendation

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

Wear

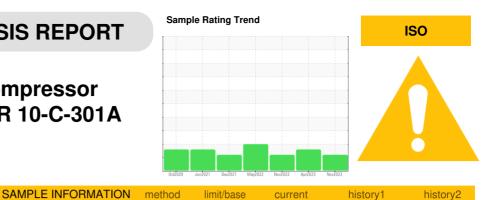
All component wear rates are normal.

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.

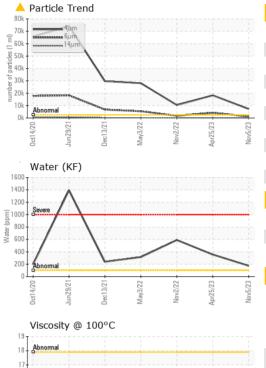


		methou	IIIII/Dase	current	Thistory I	TIStoryz
Sample Number		Client Info		TO60001835	TO90003037	TO90002765
Sample Date		Client Info		05 Nov 2023	25 Apr 2023	02 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>70	5	3	2
Chromium	ppm	ASTM D5185m	>10	<1	0	<1
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	<1	<1
Tin	ppm	ASTM D5185m	>3	2	<1	1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
			in in base			
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		0	<1	0
Calcium	ppm	ASTM D5185m		82	84	65
Phosphorus	ppm	ASTM D5185m		19	16	30
Zinc	ppm	ASTM D5185m		0	4	0
Sulfur	ppm	ASTM D5185m		552	491	251
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	4	4	4
Sodium	ppm	ASTM D5185m		<1	1	<1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.6	0.017	0.035	0.059
ppm Water	ppm	ASTM D6304		173.9	356.2	590
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	7268	18324	▲ 10420
Particles >6µm		ASTM D7647		▲ 1133	4224	▲ 1740
Particles >14µm		ASTM D7647	>80	22	▲ 96	65
Particles >21µm		ASTM D7647		3	11	15
Particles >38µm		ASTM D7647 ASTM D7647	>4	0	1	0
Particles >71µm		ASTM D7647 ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>3 >18/15/13	0 20/17/12	0 ▲ 21/19/14	▲ 21/18/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.077	0.058	0.11



OIL ANALYSIS REPORT

Color



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	LIGHT	LIGHT
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 PROPERTIES		method	limit/base	current	history1	history2
		methou	IIIIIVDase	Current	TISTOLAT	THStOLY2
Visc @ 40°C	cSt	ASTM D445		105	105	110
Visc @ 100°C	cSt	ASTM D445	16.3		16.38	16.4
Viscosity Index (VI)	Scale	ASTM D2270		167	168	160
SAMPLE IMAGES		method	limit/base	current	history1	history2
				-L'al-		

