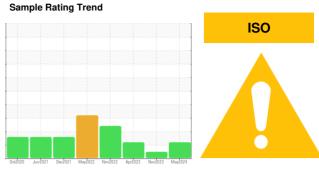


OIL ANALYSIS REPORT

Marcus Hook/Cryogenic/Compressor **CRYOGENIC COMPRESSOR 50-C-101D**

Rotary Compressor

ISO 100 (220 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

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

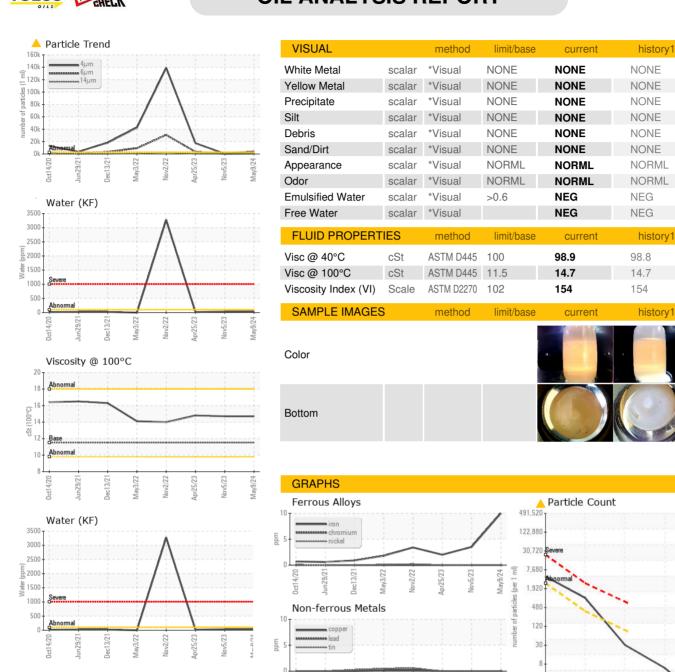
Fluid Condition

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		TO60001807	TO60001820	TO90003047
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	10	4	2
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	<1	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	0	0	0
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	0	<1
Calcium	ppm	ASTM D5185m		0	8	9
Phosphorus	ppm	ASTM D5185m		80	104	93
Zinc	ppm	ASTM D5185m		2	5	7
Sulfur	ppm	ASTM D5185m		698	777	811
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	2	<1	3
Sodium	ppm	ASTM D5185m		11	5	<1
Potassium	ppm	ASTM D5185m	>20	0	0	1
Water	%	ASTM D6304	>0.6	0.003	0.003	0.002
ppm Water	ppm	ASTM D6304		27	33.0	17.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	4102	399	<u>▲</u> 17458
Particles >6µm		ASTM D7647	>320	A 842	117	△ 3579
Particles >14µm		ASTM D7647	>80	27	11	76
Particles >21µm		ASTM D7647	>20	5	2	9
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>	16/14/11	<u>\$\text{\Delta}\$</u> 21/19/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



OIL ANALYSIS REPORT





Abnormal

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Viscosity @ 100°C



Certificate 12367

Laboratory Sample No.

: TO60001807 : 06182942 Lab Number Unique Number : 11034268

120 (200 (±00) (±00)

90

80

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

Tested : 20 May 2024 Diagnosed Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

: 21 May 2024 - Don Baldridge

09.00 09.0

₽ 0.40

운 0.20

0.00 gg

Acid Number

MARCUS HOOK, PA US 19061 Contact: CHRISTOPHER HOFFA

2ND & GREEN STREETS

ENERGY TRANSFER - MARCUS HOOK

christopher.hoffa@energytransfer.com

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.

Viscosity @ 40°C

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

T:

F:

history2

NONE

NONE

NONE

NONE

LIGHT

NONE

NORML

NORML

history

history2

20 8

NEG

NEG

98.0

14.8

157