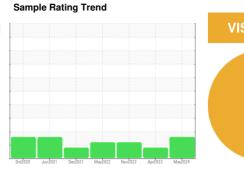


OIL ANALYSIS REPORT

Marcus Hook/Cryogenic/Compressor **CRYOGENIC COMPRESSOR 10-C-101A**

Rotary Compressor

TULCO LUBSOIL SYN RL WI 100 (550 GAL)





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 moderate amount of silt (particulates < 14 microns in size) present in the oil.

Fluid Condition

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

)		Oct2020	Jun2021 Dec2021	May2022 Nov2022 Apr2023	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90002096	TO90003036	TO90002763
Sample Date		Client Info		09 May 2024	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				ATTENTION	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>70	0	3	3
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	<1
Lead	ppm	ASTM D5185m	>4	0	<1	<1
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	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		0	3	2
Phosphorus	ppm	ASTM D5185m	1500	1361	11	32
Zinc	ppm	ASTM D5185m		0	2	0
Sulfur	ppm	ASTM D5185m		0	<1	0
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	3	12	13
Sodium	ppm	ASTM D5185m		<1	2	3
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>2.26	0.036	0.025	0.051
ppm Water	ppm	ASTM D6304	>22600	363	257.3	510
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>2500	2124	1541	2815
Particles >6µm		ASTM D7647		408	332	333
Particles >14µm		ASTM D7647	>80	15	18	18
Particles >21µm		ASTM D7647		4	4	7
Particles >38µm		ASTM D7647	>4	0	1	0
Particles >71μm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15/13	<u>18/16/11</u>	18/16/11	19/16/11
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.04	0.039	0.096	0.06



OIL ANALYSIS REPORT







Certificate 12367

Sample No. Lab Number Unique Number : 11034251

: TO90002096 : 06182925

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

Received : 17 May 2024 **Tested**

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

: 29 May 2024 - Jonathan Hester

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

* - 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] 06182925 (Generated: 05/29/2024 09:24:01) Rev: 1

Submitted By: ERIC THORNTON

2ND & GREEN STREETS

MARCUS HOOK, PA

F: