

OIL ANALYSIS REPORT

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

Rotary Compressor

LUBSOIL SYNTHETIC COMPRESSOR 100 (220 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. We were unable to perform a particle count due to insufficient sample. (Customer Sample Comment: Lubsoil Syn Comp 100)

Wear

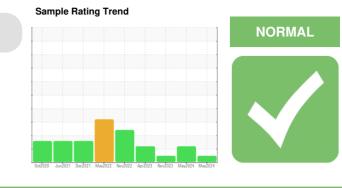
All component wear rates are normal.

Contamination

The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition

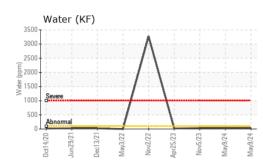
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

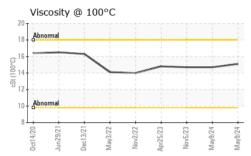


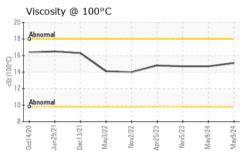
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90002165	TO60001807	TO60001820
Sample Date		Client Info		09 May 2024	09 May 2024	05 Nov 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>70	10	10	4
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	<1	<1
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>4	0	0	0
Copper	ppm	ASTM D5185m		0	0	0
Tin	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m	~0	ں <1	<1	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	0
Calcium	ppm	ASTM D5185m		0	0	8
Phosphorus	ppm	ASTM D5185m		69	80	104
Zinc	ppm	ASTM D5185m		7	2	5
Sulfur	ppm	ASTM D5185m		603	698	777
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>45	5	2	<1
Sodium	ppm	ASTM D5185m		8	11	5
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304		0.002	0.003	0.003
ppm Water	ppm	ASTM D6304	, 0.0	25	27	33.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500		4102	399
Particles >6µm		ASTM D7647	>320		▲ 842	117
Particles >14µm		ASTM D7647	>80		27	11
Particles >21µm		ASTM D7647	>20		5	2
Particles >38µm		ASTM D7647	>4		0	0
Particles >71µm		ASTM D7647	>3		0	0
Oil Cleanliness		ISO 4406 (c)	>18/15/13		▲ 19/17/12	16/14/11
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.137	0.129	0.199

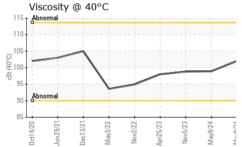


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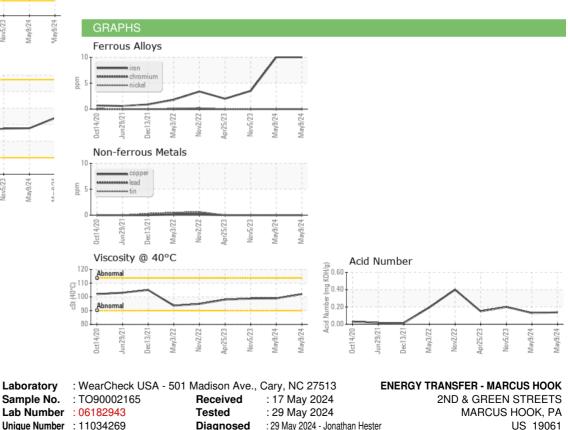






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	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		102	98.9	98.8
Visc @ 100°C	cSt	ASTM D445		15.1	14.7	14.7
Viscosity Index (VI)	Scale	ASTM D2270		155	154	154
SAMPLE IMAGES	3	method	limit/base	current	history1	history2
Color						
						1

Bottom



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	Lab Number	: 06182943	Tested	: 29 May 2024	MARCUS H	JOK, PA		
	Unique Number	: 11034269	Diagnosed	: 29 May 2024 - Jonathan Hest	er US	S 19061		
	Certificate L2367 Test Package	: IND 2 (Additiona	I Tests: KF, KV100	, PrtCount, VI)	Contact: CHRISTOPHER	t HOFFA		
	To discuss this sample report	, contact Customer	Service at 1-800-23	37-1369.	christopher.hoffa@energytran	sfer.com		
	* - Denotes test methods that	are outside of the IS	SO 17025 scope of	accreditation.		Т:		
	Statements of conformity to sp	pecifications are bas	sed on the simple a	cceptance decision rule (Jo	CGM 106:2012)	F:		
w.	MUSCARI 06182943 (Congreted: 05/20/2024 17:00:11) Rev: 1 Submitted By: ERIC THORNTON							

Report Id: ETCMHOOK [WUSCAR] 06182943 (Generated: 05/29/2024 17:09:11) Rev: 1

ANAB

Submitted By: ERIC THORNTON Page 2 of 2