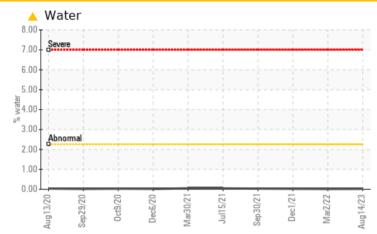


PROBLEM SUMMARY

Area REBEL 2 Machine Id FRICK C-163 - REBEL 2

Component Refrigeration Compressor Fluid TULCO LUBSOIL SYN RL WI 100 (250 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				MARGINAL	MARGINAL	ATTENTION		
Water	%	ASTM D6304	>2.26	A 0.022	0.016	▲ 0.025		
ppm Water	ppm	ASTM D6304	>22600	<u> </u>	1 60.7	<u> </u>		

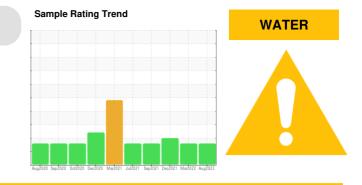
Customer Id: ENEGAR Sample No.: TO90002196 Lab Number: 05931584 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@wearcheckusa.com

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



RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

02 Mar 2022 Diag: Don Baldridge



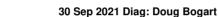
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a trace of moisture present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





01 Dec 2021 Diag: Doug Bogart

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 < 6 microns in size) present in the oil. There is a trace of moisture present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





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 trace of moisture present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





view report

Report Id: ENEGAR [WUSCAR] 05931584 (Generated: 08/24/2023 14:54:16) Rev: 1



OIL ANALYSIS REPORT

SAMPLE INFORMATION method

Sample Rating Trend

limit/base

current

history1

WATER

history2

Area **REBEL 2 FRICK C-163 - REBEL 2** Component

Refrigeration Compressor Fluid TULCO LUBSOIL SYN RL WI 100 (250 GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a trace of moisture present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

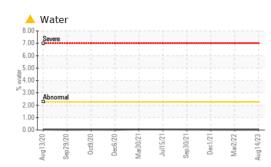
Sample Number		Client Info		TO90002196	TO90000114	TO90001854
Sample Date		Client Info		14 Aug 2023	02 Mar 2022	01 Dec 2021
Machine Age	hrs	Client Info		1113	1113	1113
Oil Age	hrs	Client Info		1113	1113	1113
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				MARGINAL	MARGINAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	12	8	6
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>3	0	<1	0
Lead	ppm	ASTM D5185m	>2	0	0	<1
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	1	1	1
Antimony	ppm	ASTM D5185m			0	3
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
	To De					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	3	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		1	0	0
Calcium	ppm	ASTM D5185m		2	3	0
Phosphorus	ppm	ASTM D5185m	1500	604	1220	920
Zinc	ppm	ASTM D5185m		3	8	0
Sulfur	ppm	ASTM D5185m		16	8	15
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	6	1
Sodium	ppm	ASTM D5185m		- 11	6	11
Potassium	ppm	ASTM D5185m	>20	1	0	<1
Water	%	ASTM D6304		<u> </u>	▲ 0.016	▲ 0.025
ppm Water	ppm	ASTM D6304		▲ 228.4	▲ 160.7	▲ 252.0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1167	8808	12327
Particles >6µm		ASTM D7647		322	1440	978
Particles >14µm		ASTM D7647	>320	20	34	23
Particles >21µm		ASTM D7647	>80	4	7	5
Particles >38µm		ASTM D7647	>20	0	0	1
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	17/16/11	20/18/12	🔺 21/17/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.04	0.027	0.042	0.014

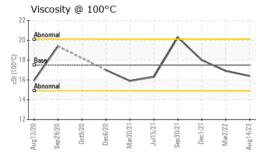
Report Id: ENEGAR [WUSCAR] 05931584 (Generated: 08/24/2023 14:54:17) Rev: 1

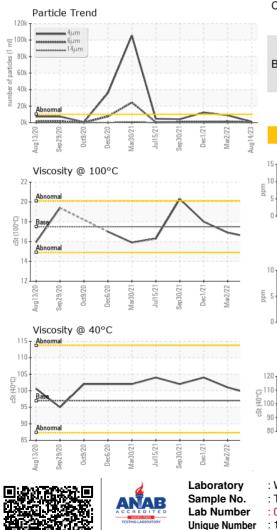
Submitted By: ERIC THORNTON



OIL ANALYSIS REPORT

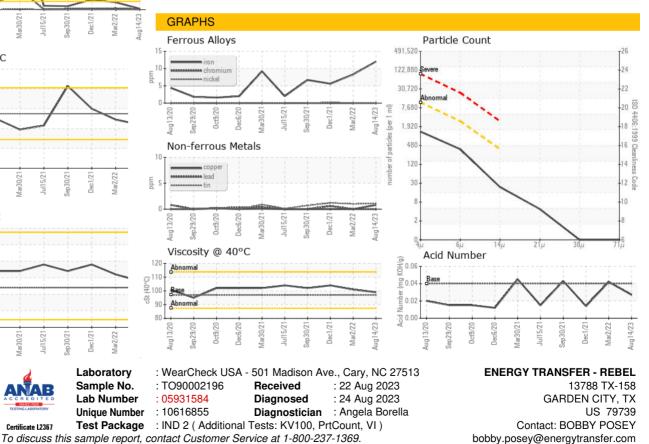






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2.26	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	97	99.0	101	104
Visc @ 100°C	cSt	ASTM D445	17.5	16.4	16.9	18.0
Viscosity Index (VI)	Scale	ASTM D2270	198	179	182	191
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						

Bottom



* - 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)

Certificate L2367

F:

T: (432)270-4842