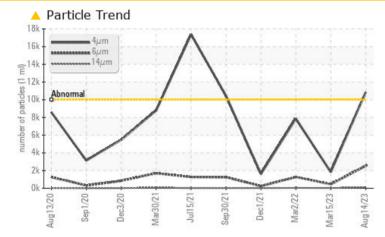


PROBLEM SUMMARY

REBEL 1 Machine Id FRICK C-162 - REBEL 1

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			ATTENTION	NORMAL	MARGINAL		
Particles >4µm	ASTM D7647	>10000	<u> </u>	1831	7858		
Particles >6µm	ASTM D7647	>2500	🔺 2538	463	1270		
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<u> </u>	18/16/12	20/17/13		

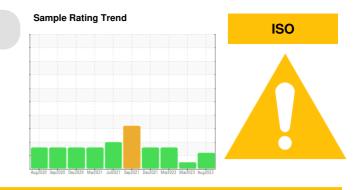
Customer Id: ENEGAR Sample No.: TO90002192 Lab Number: 05931587 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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

15 Mar 2023 Diag: Don Baldridge



Resample at the next service interval to monitor.All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

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 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.





OIL ANALYSIS REPORT

Area **REBEL 1** Machine Id **FRICK C-162 - REBEL 1** Component

Refrigeration Compressor

TULCO LUBSOIL SYN RL WI 100 (250 GAL)

DIAGNOSIS

A 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 moderate 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.

		Aug2020 Sep2	020 Dec2020 Mar2021 Jul2	021 Sep2021 Dec2021 Mar2022 Mar2	023 Aug2023	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90002192	TO90002312	TO90000049
Sample Date		Client Info		14 Aug 2023	15 Mar 2023	02 Mar 2022
Machine Age	hrs	Client Info		0	0	0
Dil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	22	10	1
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	0
Fitanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>3	0	1	<1
	ppm	ASTM D5185m	>2	0	0	0
	ppm	ASTM D5185m	>8	<1	0	0
	ppm	ASTM D5185m	>4	1	<1	<1
	ppm	ASTM D5185m				3
,	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	3
	ppm	ASTM D5185m		0	0	0
	ppm	ASTM D5185m		0	1	0
	ppm	ASTM D5185m		<1	<1	0
-	ppm	ASTM D5185m		<1	<1	0
-	ppm	ASTM D5185m		2	4	0
	ppm	ASTM D5185m	1500	702	350	396
	ppm	ASTM D5185m		12	5	0
	ppm	ASTM D5185m		16	11	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	3	2	1
Sodium	ppm	ASTM D5185m		9	10	6
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>2.26	0.028	0.006	▲ 0.013
opm Water	ppm	ASTM D6304	>22600	284.6	63.9	▲ 137.4
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
⊃articles >4μm		ASTM D7647	>10000	10851	1831	7858
Particles >6µm		ASTM D7647	>2500	<u> </u>	463	1270
Particles >14µm		ASTM D7647	>320	93	25	44
Particles >21µm		ASTM D7647	>80	24	8	10
Particles >38µm		ASTM D7647	>20	2	1	0
Particles >71µm		ASTM D7647	>4	0	1	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 21/19/14	18/16/12	20/17/13
FLUID DEGRADAT	ΓΙΟΝ	method	limit/base	current	history1	history2
		ASTM D974		0.016		

Sample Rating Trend

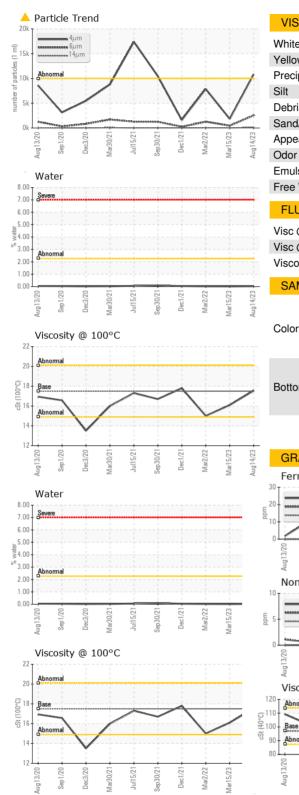
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Submitted By: ERIC THORNTON

ISO

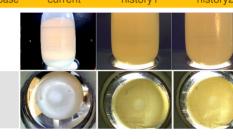
TULCO WEAREN

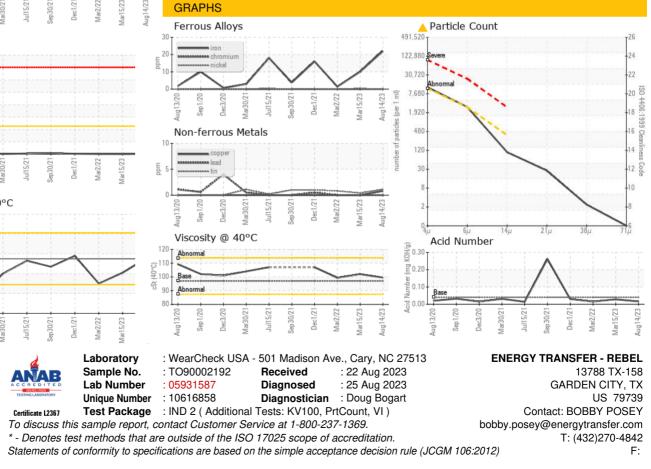
OIL ANALYSIS REPORT



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	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	>2.26	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	97	99.5	102	99.3
Visc @ 100°C	cSt	ASTM D445	17.5	17.55	16.1	15.0
Viscosity Index (VI)	Scale	ASTM D2270	198	194	169	158
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
				-++		
Color						

Bottom





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Submitted By: ERIC THORNTON