

OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



REBEL 2 FRICK C-162 - REBEL 2

Refrigeration Compressor

TULCO LUBSOIL SYN RL WI 100 (250 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

The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Fluid Condition

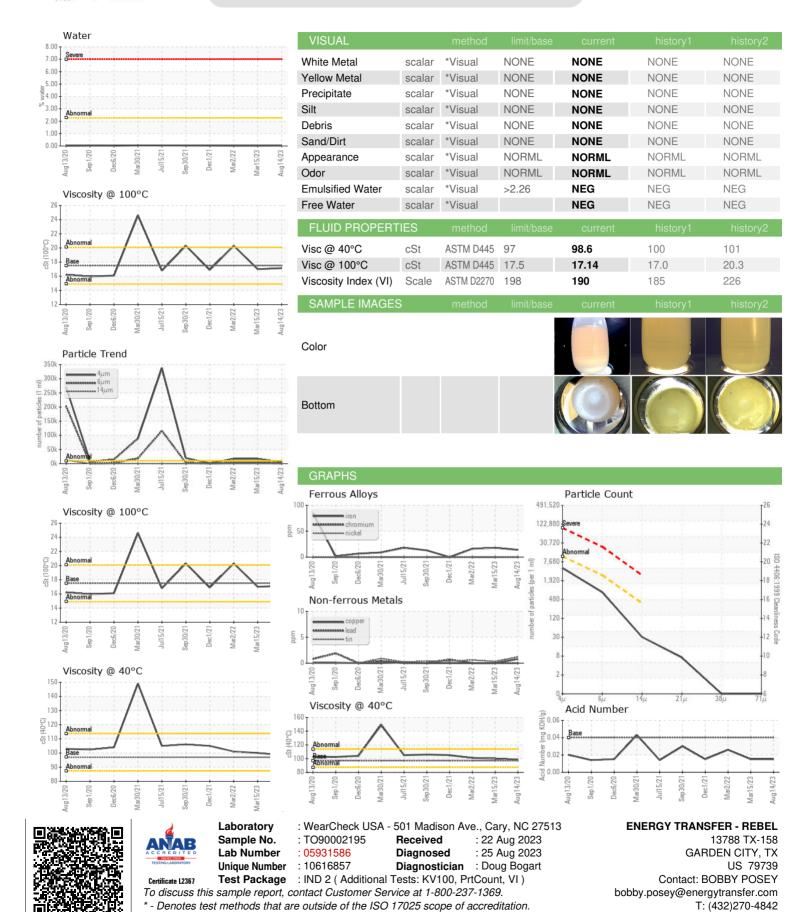
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

-)		Aug2020 Sep2	020 Dec2020 Mar2021 Jul2	021 Sep2021 Dec2021 Mar2022 Mar	023 Aug ² 023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90002195	TO90002315	TO90000113
Sample Date		Client Info		14 Aug 2023	15 Mar 2023	02 Mar 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				NORMAL	ATTENTION	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	14	18	16
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>3	0	1	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	1	<1	<1
Antimony	ppm	ASTM D5185m				<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	3
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		1	<1	0
Calcium	ppm	ASTM D5185m		1	5	0
Phosphorus	ppm	ASTM D5185m	1500	511	674	816
Zinc	ppm	ASTM D5185m		0	17	13
Sulfur	ppm	ASTM D5185m		9	60	6
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	2
Sodium	ppm	ASTM D5185m		11	6	6
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>2.26	0.029	0.020	△ 0.017
ppm Water	ppm	ASTM D6304	>22600	290.4	207.0	▲ 170.9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	4234	<u> </u>	<u></u> 17045
Particles >6µm		ASTM D7647	>2500	720	▲ 3647	▲ 3201
Particles >14μm		ASTM D7647	>320	27	75	94
Particles >21µm		ASTM D7647	>80	6	12	16
Particles >38μm		ASTM D7647	>20	0	1	0
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/12	<u>\$\text{\Delta}\$ 21/19/13</u>	<u>\$\text{21}19/14}</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A : INI (AND	1/011/	4 OTM 1 DOT 4	0.04	0.045	0.04=	

0.015



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

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