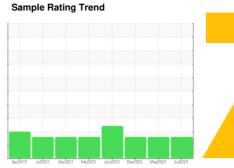


# **OIL ANALYSIS REPORT**

# MISSION RANCHO **MISSION RANCHO B-1 (S/N 2015132)**

Refrigeration Compressor

FRICK COMPRESSOR OIL #13 (--- GAL)





## **DIAGNOSIS**

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is a light concentration of water present in the oil. Confirmed. The amount and size of particulates present in the system are acceptable.

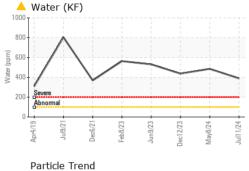
### **Fluid Condition**

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

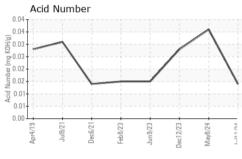
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012280	USP0011521	USP250265
Sample Date		Client Info		11 Jul 2024	08 May 2024	12 Dec 2023
Machine Age	hrs	Client Info		74275	74274	74264
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	MARGINAL	MARGINAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	0	0
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>3	<1	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	<1
Tin	ppm	ASTM D5185m	>4	<1	0	<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		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	<1
Phosphorus	ppm	ASTM D5185m		0	1	2
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		0	<1	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	5	<1	<1
Sodium	ppm	ASTM D5185m		0	<1	2
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.01	<b>△</b> 0.038	△ 0.048	<b>△</b> 0.043
ppm Water	ppm	ASTM D6304	>100	▲ 389	<u>486</u>	<b>▲</b> 437
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	2577	2421	5928
Particles >6µm		ASTM D7647	>2500	440	442	1191
Particles >14µm		ASTM D7647	>320	8	10	36
Particles >21µm		ASTM D7647	>80	2	4	7
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/16/10	18/16/10	20/17/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		0.014	0.036	0.028

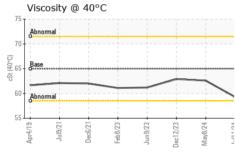


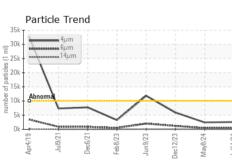
# OIL ANALYSIS REPORT

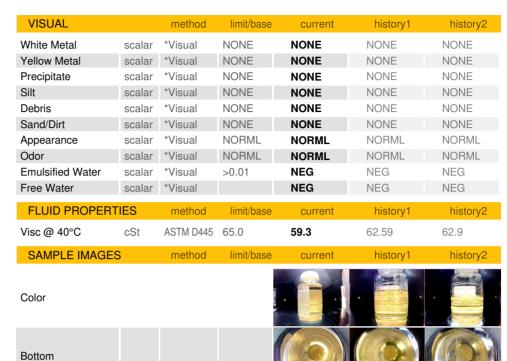


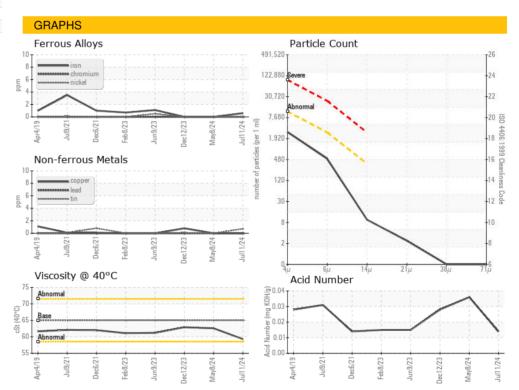
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Laboratory Sample No. Lab Number

: 06234995 Unique Number : 11123829

: USP0012280

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 12 Jul 2024 **Tested** 

: 15 Jul 2024 Diagnosed : 15 Jul 2024 - Doug Bogart

Test Package : IND 2 Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

**RACE ENGINEERING CORP** 

12871 WESTERN AVE, SUITE E GARDEN GROVE, CA

US 92841 Contact: TODD CARTER

tcrace@verizon.net T: (714)895-3488 F: (714)895-5125

Report Id: RACGAR [WUSCAR] 06234995 (Generated: 07/15/2024 22:05:56) Rev: 1

Contact/Location: TODD CARTER - RACGAR