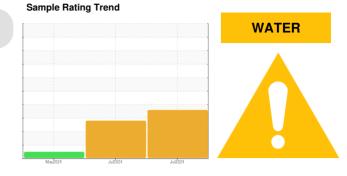


OIL ANALYSIS REPORT

MISSION RANCHO **MISSION RANCHO C2**

Refrigeration Compressor

FRICK COMPRESSOR OIL #13 (--- GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. NOTE: one of two samples received with same ID.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012287	USP0012283	USP0011525
Sample Date		Client Info		11 Jul 2024	11 Jul 2024	08 May 2024
Machine Age	hrs	Client Info		175402	0	174374
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	1	<1	
Chromium	ppm	ASTM D5185m	>2	0	0	
Nickel	ppm	ASTM D5185m		0	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m	>2	0	0	
Aluminum	ppm	ASTM D5185m	>3	<1	<1	
Lead	ppm	ASTM D5185m	>2	0	0	
Copper	ppm	ASTM D5185m	>8	0	0	
Tin	ppm	ASTM D5185m	>4	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		0	0	
Phosphorus	ppm	ASTM D5185m		0	0	
Zinc		ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		0	0	
	ppm					
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	14	
Sodium	ppm	ASTM D5185m		0	0	
Potassium	ppm	ASTM D5185m	>20	<1	<1	
Water	%	ASTM D6304		△ 0.045	▲ 0.039	
ppm Water	ppm	ASTM D6304	>100	<u>▲</u> 451	△ 393	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>2500	<u>25797</u>	△ 9016	
Particles >6µm		ASTM D7647	>320	△ 7380	<u>▲</u> 2058	
Particles >14μm		ASTM D7647	>80	457	63	
Particles >21µm		ASTM D7647	>20	<u></u> 83	7	
Particles >38µm		ASTM D7647	>4	2	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>18/15/13	22/20/16	<u>^</u> 20/18/13	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
	140114	ACTM DOZA		0.014	0.044	

Acid Number (AN)

mg KOH/g ASTM D974

0.014

0.014



OIL ANALYSIS REPORT







Certificate 12367

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Lab Number : 06235003

: USP0012287 Unique Number : 11123837

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : IND 2

Received : 12 Jul 2024 Tested : 17 Jul 2024

Diagnosed : 17 Jul 2024 - Doug Bogart

US 92841 Contact: TODD CARTER tcrace@verizon.net T: (714)895-3488

12871 WESTERN AVE, SUITE E

GARDEN GROVE, CA

 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)

F: (714)895-5125