WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

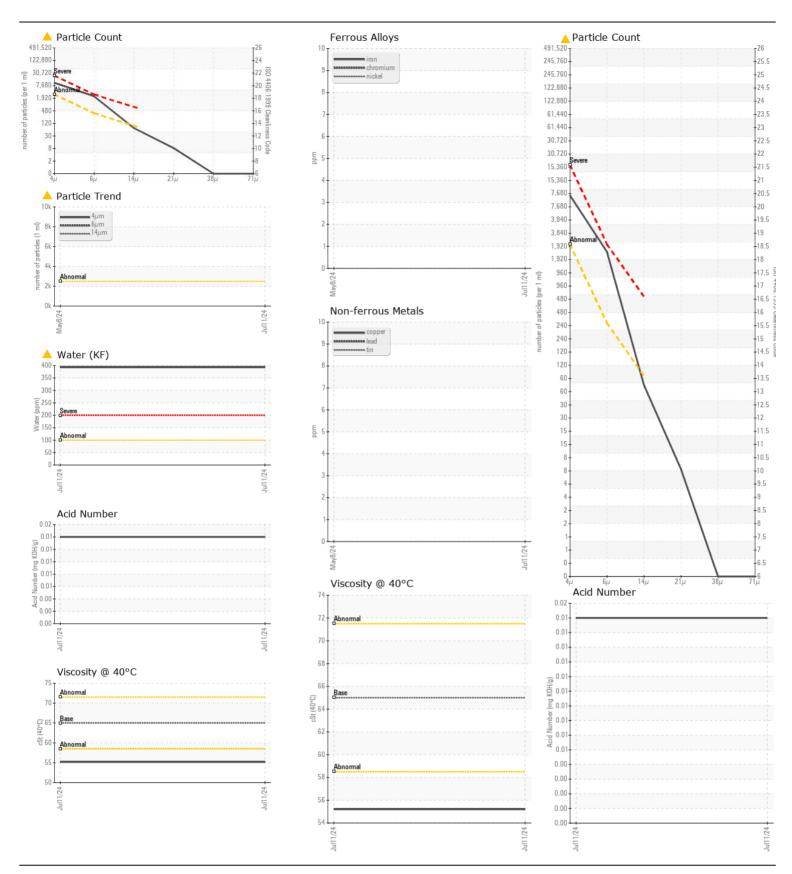
Area

## MISSION RANCHO Machine Id MISSION RANCHO C2

**Refrigeration Compressor** 

FRICK COMPRESSOR OIL #13 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		USP0012283	USP0011525	
	Sample Date		Client Info		11 Jul 2024	08 May 2024	
	Machine Age	hrs	Client Info		0	174374	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	NORMAL	
VEAR	Iron	ppm	ASTM D5185m	>8	<1		
	Chromium	ppm	ASTM D5185m	>2	0		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>2	0		
	Aluminum	ppm	ASTM D5185m		<1		
	Lead	ppm	ASTM D5185m	>2	0		
	Copper	ppm	ASTM D5185m	>8	0		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	<15	14		
CONTAININATION	Potassium	ppm	ASTM D5185m		<1		
There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a trace of moisture present in the oil.	Water	%	ASTM D3103111		▲ 0.039		
	ppm Water	ppm	ASTM D6304		▲ 393		
	Particles >4µm	ррпп	ASTM D0304		▲ 9016		
	Particles >6µm		ASTM D7647		<u>^</u> 2058		
	Particles >14µm		ASTM D7647		63		
	Particles >21µm		ASTM D7647		7		
	Particles >38µm		ASTM D7647		0		
	Particles >71µm		ASTM D7647		0		
	Oil Cleanliness			>18/15/13	<u>^</u> 20/18/13		
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	LIGHT	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	
LUID CONDITION	Sodium	nnm	ACTM DE10E~		0		
LUID CUNDITION		ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.	Boron Barium	ppm	ASTM D5185m		1		
		ppm	ASTM D5185m ASTM D5185m		0 0		
	Molybdenum Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		0		
	Calcium	ppm	ASTM D5165III		0		
	Phosphorus	ppm	ASTM D5185m		0		
	Zinc	ppm	ASTM D5185m		0		
	Sulfur	ppm	ASTM D5185m		0		
	Acid Number (AN)	mg KOH/g	ASTM D3103111		0.014		





Certificate L2367

Laboratory Sample No. Lab Number

: USP0012283 : 06234998 Unique Number: 11123832 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jul 2024 **Tested** : 16 Jul 2024

: 16 Jul 2024 - Doug Bogart Diagnosed

RACE ENGINEERING CORP 12871 WESTERN AVE, SUITE E GARDEN GROVE, CA

US 92841 Contact: TODD CARTER

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

\* - 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)