WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

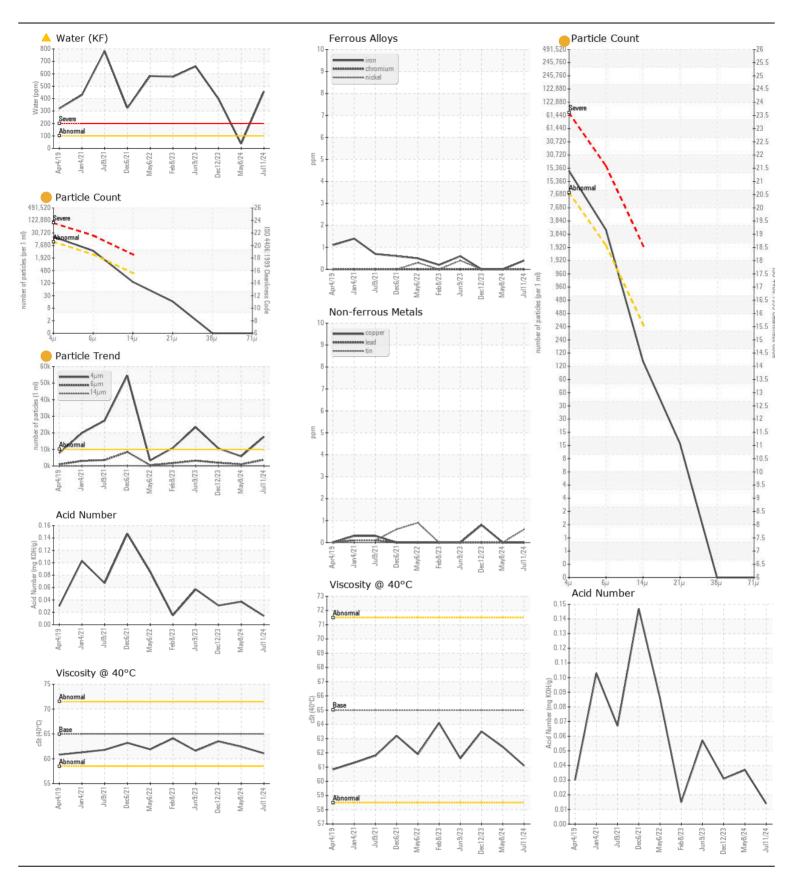
NORMAL

Area

## MISSION RANCHO MISSION RANCHO B-2 (S/N 2015146)

Refrigeration Compressor

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		USP0012282	USP0011520	USP25027
	Sample Date		Client Info		11 Jul 2024	08 May 2024	12 Dec 202
	Machine Age	hrs	Client Info		151077	149841	146231
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	NORMAL	ATTENTIO
WEAR	Iron	ppm	ASTM D5185m	>8	<1	0	0
	Chromium	ppm	ASTM D5185m	>2	0	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	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	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>15	1	<1	0
SONTAIMINATION	Potassium	ppm	ASTM D5185m		<1	0	0
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil.	Water	%	ASTM D6304		<b>△</b> 0.045	0.003	△ 0.039
	ppm Water	ppm	ASTM D6304		<b>458</b>	37	<b>△</b> 399
	Particles >4µm		ASTM D7647	>10000	<b>17584</b>	5839	10592
	Particles >6µm		ASTM D7647	>2500	3751	1014	1933
	Particles >14μm		ASTM D7647	>320	121	21	72
	Particles >21μm		ASTM D7647	>80	14	4	17
	Particles >38μm		ASTM D7647		0	0	0
	Particles >71μm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	21/19/14	20/17/12	21/18/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE NORML	NONE
	Appearance Odor	scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML	NORM
	Emulsified Water			>0.01	NEG	NEG	NEG
			· · · · · · · · · · · · · · · · · · ·				
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	<1	2
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	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	0	<1
	Zinc	ppm	ASTM D5185m		0	0	0
	Sulfur	ppm mg KOU/g	ASTM D5185m		0	0 027	0 021
	Acid Number (AN)	mg KOH/g	ASTM D445	CE O	0.014	0.037	0.031
	Visc @ 40°C	cSt	ASTM D445	05.0	61.1	62.42	63.5







Certificate L2367

Laboratory Sample No.

Lab Number

: USP0012282 : 06234997 Unique Number : 11123831 Test Package : IND 2

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

: 15 Jul 2024 : 15 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)