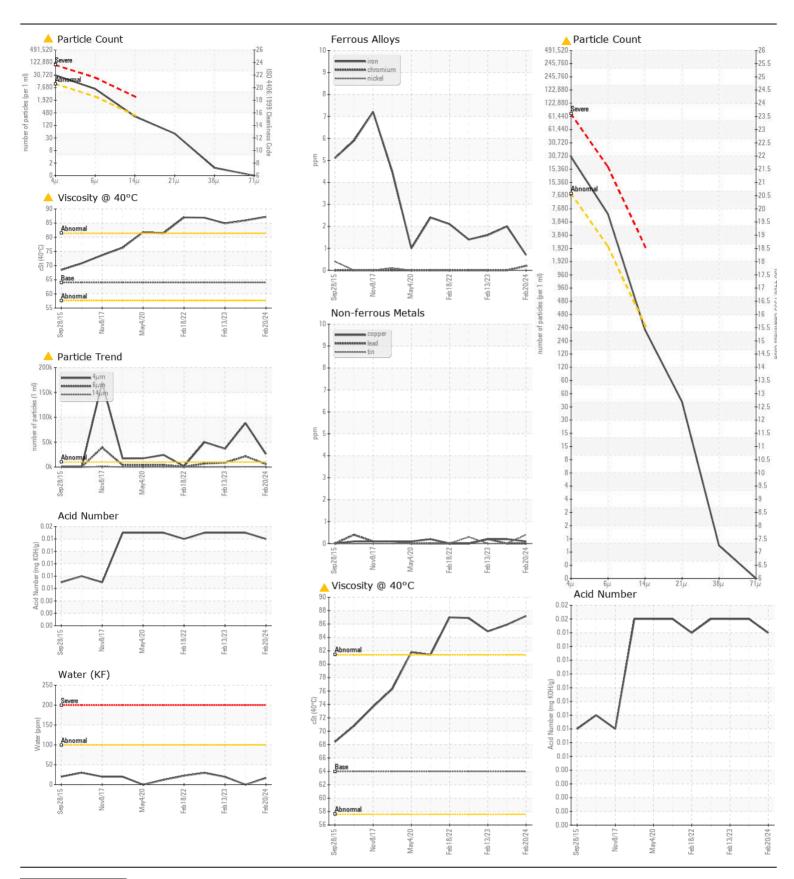
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL ABNORMAL ABNORMAL** 

## BC-4 - RALPHS RIVERSIDE (S/N S0149TFMFTHAA03)

Refrigeration Compressor							
CHEVRON CAPELLA OIL WF 68 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor.	Sample Number		Client Info		USP0007528	USP250295	USP233719
	Sample Date		Client Info		20 Feb 2024	05 Sep 2023	13 Feb 2023
	Machine Age	hrs	Client Info		96773	92731	87839
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	Not Changd	Not Changd
	Filter Changed		Client Info		N/A	Not Changd	Not Changd
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>8	<1	2	2
	Chromium	ppm	ASTM D5185m	>2	<1	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m		<1	0	<1
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		<1	<1	<1
	Tin	ppm	ASTM D5185m	>4	<1	0	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION  There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Silicon	ppm	ASTM D5185m	<b>\15</b>	<1	<1	<1
	Potassium	ppm	ASTM D5185m		<1	<1	0
	Water	%	ASTM D6304		0.002	0.001	0.002
	ppm Water	ppm	ASTM D6304		17	0.00	19.4
	Particles >4µm	ррпп	ASTM D7647		<u>^</u> 26133	<u>▲</u> 88349	▲ 36611
	Particles >6µm		ASTM D7647		<u>▲</u> 5821	<u>^</u> 21530	▲ 8752
	Particles >14µm		ASTM D7647		282	<u></u> 584	251
	Particles >21µm		ASTM D7647		43	<u>^</u> 82	30
	Particles >38µm		ASTM D7647	>20	1	1	0
	Particles >71µm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>^</u> 22/20/15	<u>4</u> 24/22/16	<u>22/20/15</u>
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	<b>Emulsified Water</b>	scalar	*Visual	>0.01	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		0	<1	0
The oil viscosity is higher than normal. Confirmed. The AN level is acceptable for this fluid. The oil is no longer serviceable.	Boron	ppm	ASTM D5185m		0	0	0
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		<1	0	0
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium	ppm	ASTM D5185m	0	0	<1	0
	Calcium	ppm	ASTM D5185m		0	0	0
	Phosphorus	ppm	ASTM D5185m		0	0	0
	Zinc	ppm	ASTM D5185m		0	0	0
	Sulfur	ppm	ASTM D5185m		146	225	201
	Acid Number (AN)	mg KOH/g	ASTM D974		0.014	0.015	0.015
	Visc @ 40°C	cSt	ASTM D445	64.0	▲ 87.2	▲ 85.9	▲ 84.9
			. 10 1 110	00			

Contact/Location: TODD CARTER - RACGAR







Certificate L2367

Laboratory Sample No.

Lab Number : 06104374 Unique Number: 10902604

: USP0007528 Test Package : IND 2

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 29 Feb 2024 Received **Tested** :01 Mar 2024

: 01 Mar 2024 - Doug Bogart Diagnosed

**RACE ENGINEERING CORP** 12871 WESTERN AVE, SUITE E

GARDEN GROVE, CA US 92841 Contact: TODD CARTER

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

\* - 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)

Contact/Location: TODD CARTER - RACGAR

F: (714)895-5125