



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**C-11 HSSC11 (S/N W1591)**  
 Component  
**Compressor**  
 Fluid  
**CHEVRON CAPELLA OIL WF 68 (40 GAL)**

**RECOMMENDATION**

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TO20000347</b>	TO20000222	TO20000189
Sample Date		Client Info		<b>12 Jun 2024</b>	31 May 2023	25 Jan 2023
Machine Age	hrs	Client Info		<b>67545</b>	63529	61284
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>3</b>	19	▲ 51
Chromium	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>&lt;1</b>	1	0
Lead	ppm	ASTM D5185m	>25	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>50	<b>0</b>	0	<1
Tin	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

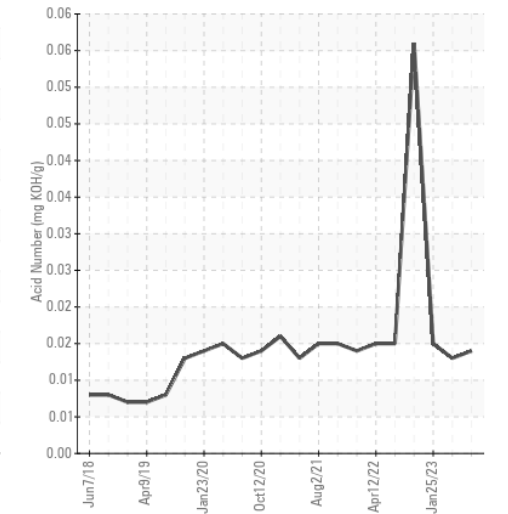
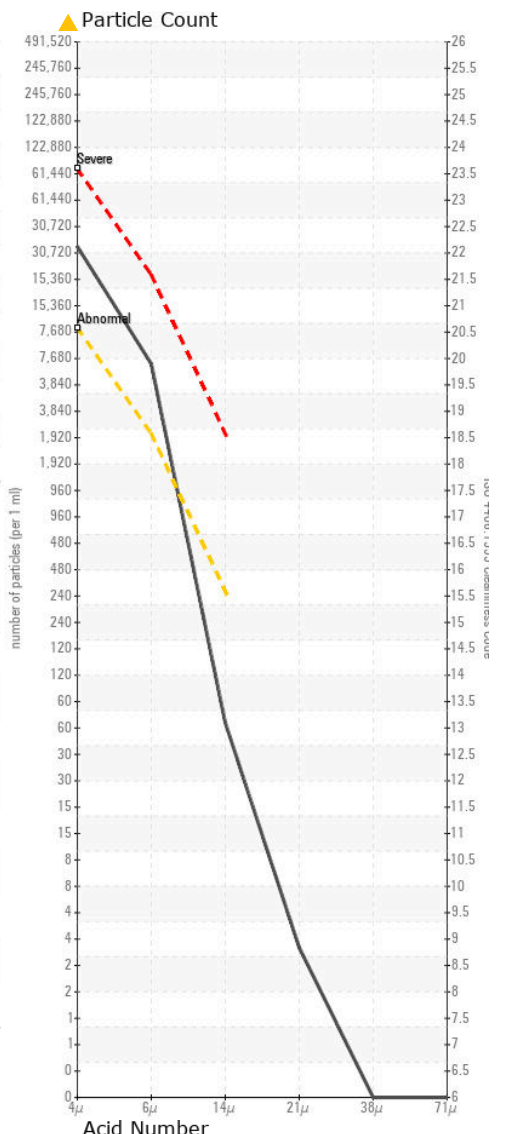
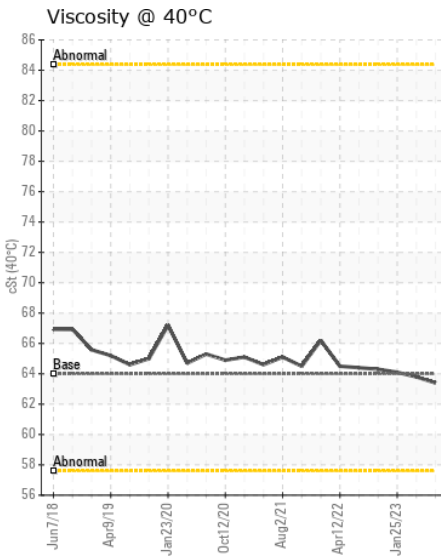
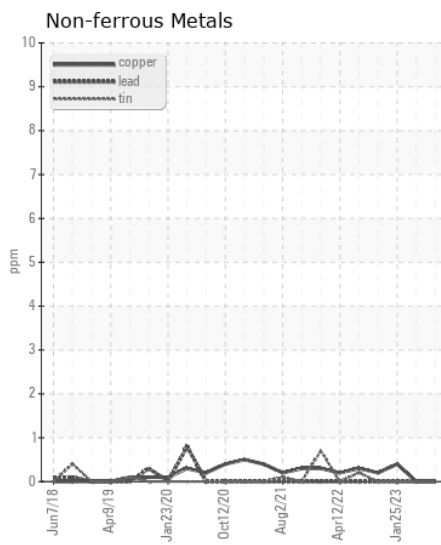
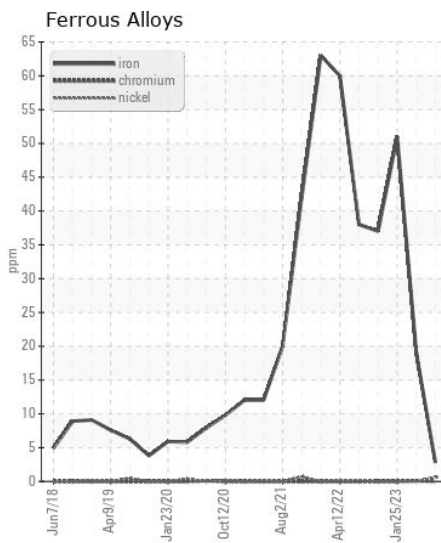
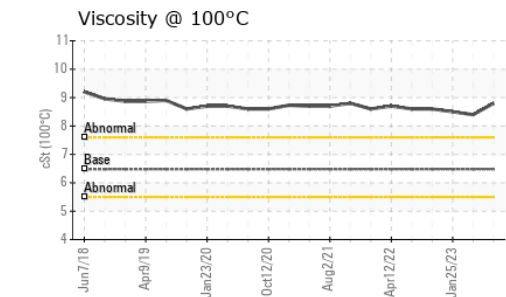
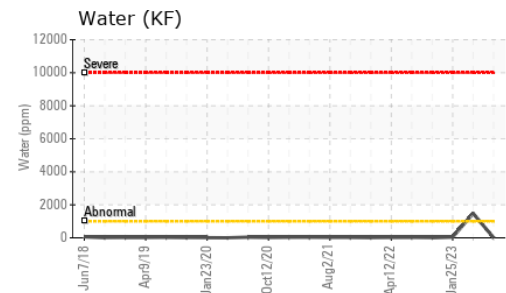
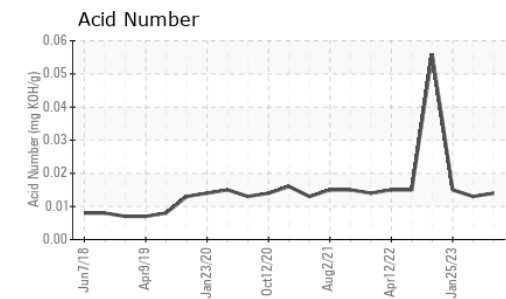
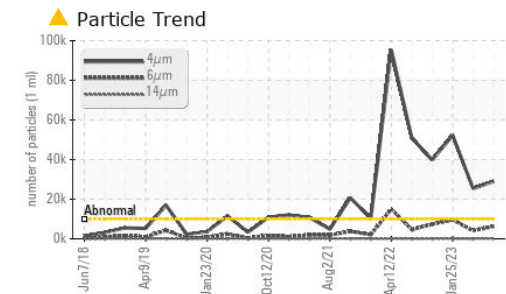
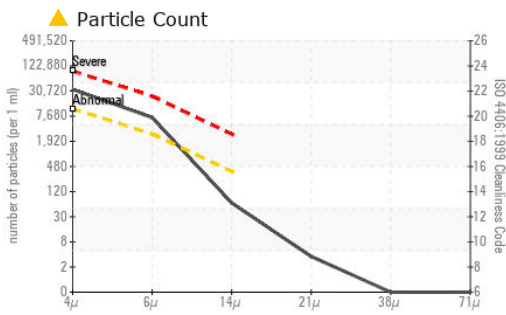
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>&lt;1</b>	<1	1
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	<1
Water	%	ASTM D6304	>0.1	<b>0.001</b>	▲ 0.148	0.004
ppm Water	ppm	ASTM D6304	>1000	<b>2</b>	▲ 1480	46.9
Particles >4µm		ASTM D7647	>10000	▲ <b>28974</b>	▲ 25355	▲ 52153
Particles >6µm		ASTM D7647	>2500	▲ <b>6233</b>	● 4136	▲ 9581
Particles >14µm		ASTM D7647	>320	<b>57</b>	69	83
Particles >21µm		ASTM D7647	>80	<b>3</b>	16	4
Particles >38µm		ASTM D7647	>20	<b>0</b>	5	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ <b>22/20/13</b>	▲ 22/19/13	▲ 23/20/14
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	0.2%	NEG

**FLUID CONDITION**

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

Sodium	ppm	ASTM D5185m		<b>2</b>	<1	0
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	2	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	0	<b>0</b>	3	<1
Calcium	ppm	ASTM D5185m		<b>0</b>	3	<1
Phosphorus	ppm	ASTM D5185m		<b>0</b>	4	3
Zinc	ppm	ASTM D5185m		<b>2</b>	33	31
Sulfur	ppm	ASTM D5185m		<b>36</b>	33	24
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.014</b>	0.013	0.015
Visc @ 40°C	cSt	ASTM D445	64.0	<b>63.4</b>	63.8	64.1
Visc @ 100°C	cSt	ASTM D445	6.48	<b>8.8</b>	8.4	8.5
Viscosity Index (VI)	Scale	ASTM D2270	12	<b>112</b>	100	102



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO20000347 **Received** : 02 Jul 2024  
**Lab Number** : 06226797 **Tested** : 03 Jul 2024  
**Unique Number** : 11110290 **Diagnosed** : 05 Jul 2024 - Don Baldridge  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PrtCount, VI )  
 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)

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