



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id **B37875 - VILTER SCREW COMPRESSOR (S/N 834)**

Component **Refrigeration Compressor**

Fluid **CHEVRON CAPELLA OIL WF 68 (--- 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>WC0885504</b>	WC0814203	WC0791897
Sample Date		Client Info		<b>16 Feb 2024</b>	31 Oct 2023	03 May 2023
Machine Age	hrs	Client Info		<b>38384</b>	37105	34795
Oil Age	hrs	Client Info		<b>0</b>	7105	4300
Filter Age	hrs	Client Info		<b>0</b>	7105	4300
Oil Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Filter Changed		Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status				<b>ABNORMAL</b>	ATTENTION	ATTENTION

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>8	<b>0</b>	0	0
Chromium	ppm	ASTM D5185m	>2	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m		<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>3	<b>0</b>	2	<1
Lead	ppm	ASTM D5185m	>2	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>8	<b>0</b>	<1	0
Tin	ppm	ASTM D5185m	>4	<b>0</b>	<1	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**

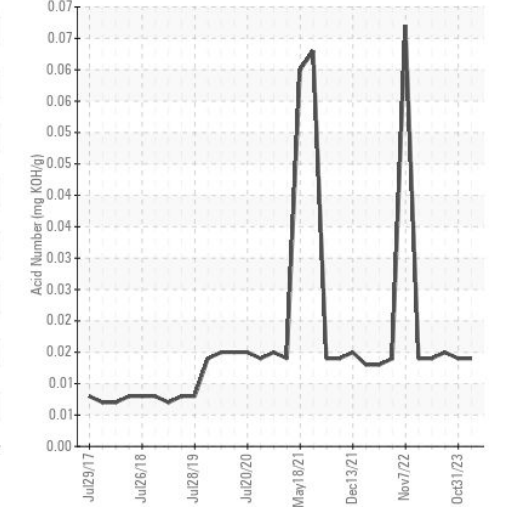
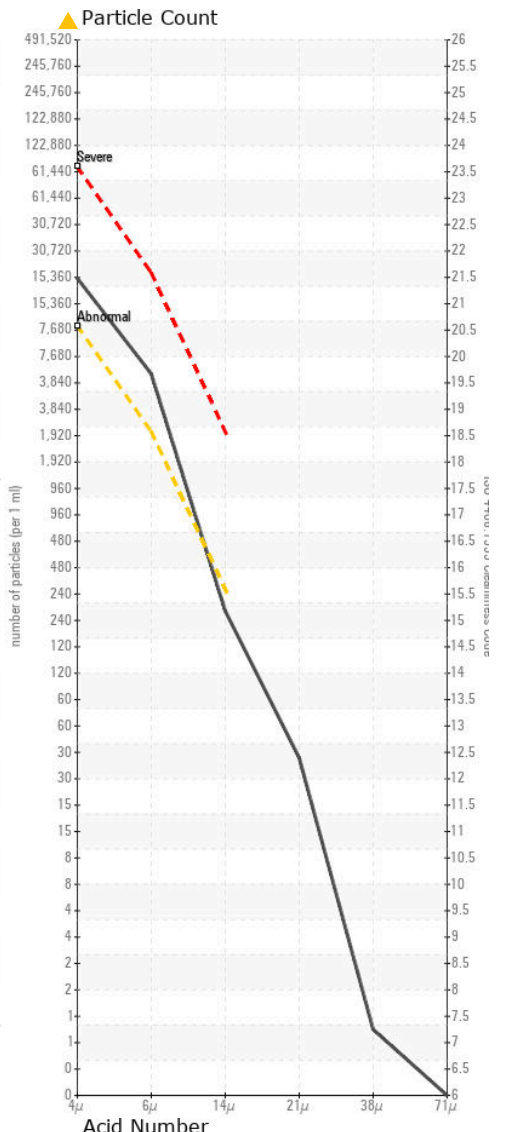
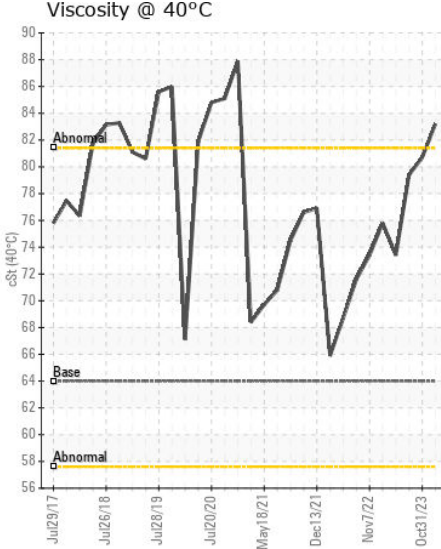
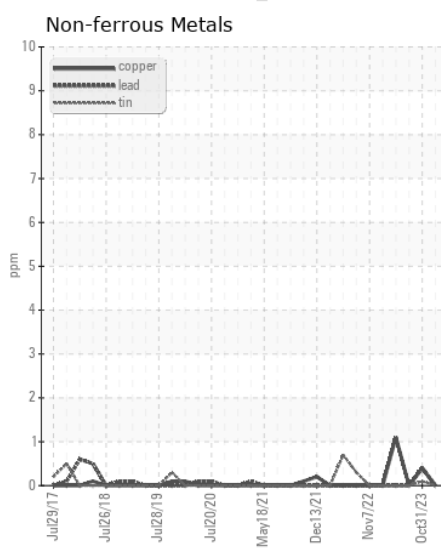
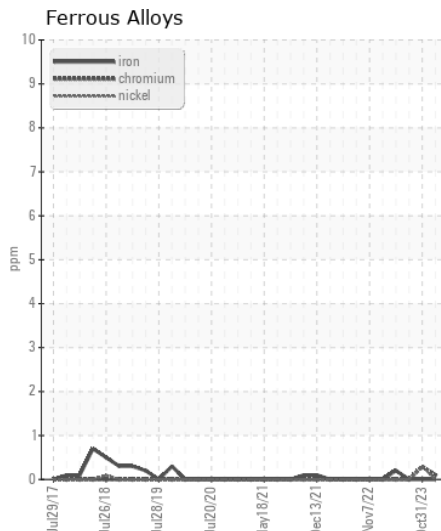
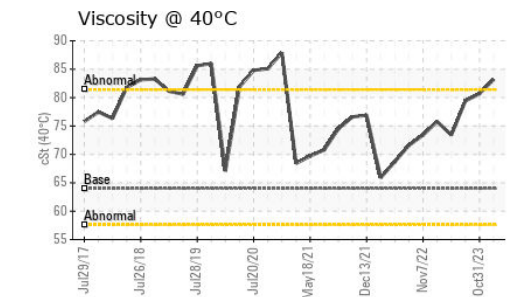
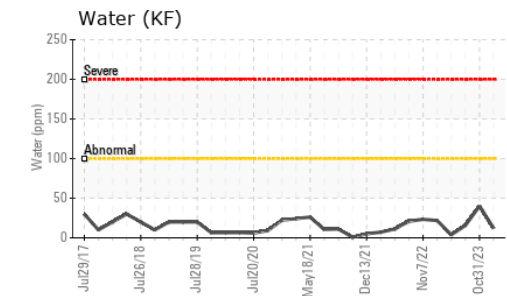
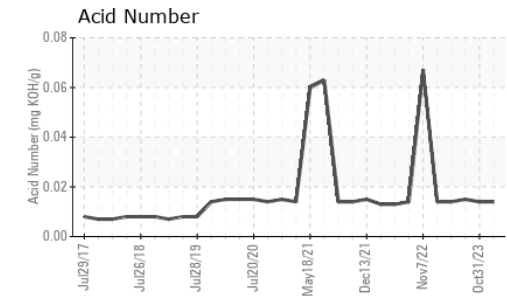
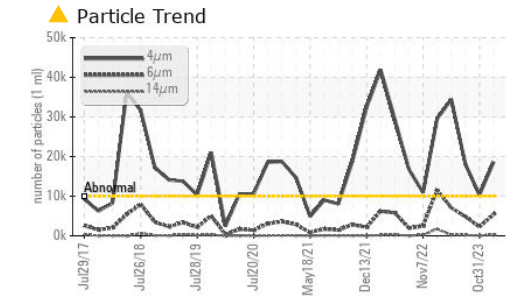
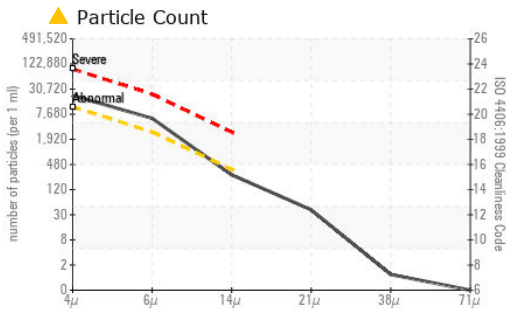
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>15	<b>0</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	0
Water	%	ASTM D6304	>0.01	<b>0.001</b>	0.004	0.002
ppm Water	ppm	ASTM D6304	>100	<b>12</b>	40.1	15.6
Particles >4µm		ASTM D7647	>10000	<b>▲ 18621</b>	● 10327	● 18101
Particles >6µm		ASTM D7647	>2500	<b>▲ 5326</b>	● 2239	● 4880
Particles >14µm		ASTM D7647	>320	<b>239</b>	58	178
Particles >21µm		ASTM D7647	>80	<b>35</b>	7	22
Particles >38µm		ASTM D7647	>20	<b>1</b>	0	0
Particles >71µm		ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>▲ 21/20/15</b>	● 21/18/13	● 21/19/15
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	LIGHT	LIGHT
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	>0.01	<b>NEG</b>	NEG	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>0</b>	0	0
Boron	ppm	ASTM D5185m		<b>0</b>	0	0
Barium	ppm	ASTM D5185m		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	0	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m		<b>1</b>	0	0
Phosphorus	ppm	ASTM D5185m		<b>0</b>	3	3
Zinc	ppm	ASTM D5185m		<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m		<b>240</b>	162	24
Acid Number (AN)	mg KOH/g	ASTM D974		<b>0.014</b>	0.014	0.015
Visc @ 40°C	cSt	ASTM D445	64.0	<b>83.2</b>	80.7	79.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0885504 **Received** : 27 Feb 2024  
**Lab Number** : 06101677 **Tested** : 28 Feb 2024  
**Unique Number** : 10899907 **Diagnosed** : 29 Feb 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

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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)