



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ATTENTION

Machine Id  
**411-7201**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON 15W40 (--- GAL)**

## RECOMMENDATION

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0423840</b>	WC0423835	---
Sample Date		Client Info		<b>26 Feb 2024</b>	27 Jun 2023	---
Machine Age	hrs	Client Info		<b>24000</b>	0	---
Oil Age	hrs	Client Info		<b>500</b>	0	---
Filter Age	hrs	Client Info		<b>500</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	N/A	---
Filter Changed		Client Info		<b>Changed</b>	N/A	---
Sample Status				<b>SEVERE</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>9</b>	26	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	2	---
Lead	ppm	ASTM D5185(m)	>40	<b>1</b>	9	---
Copper	ppm	ASTM D5185(m)	>330	<b>6</b>	7	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	<1	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

## CONTAMINATION

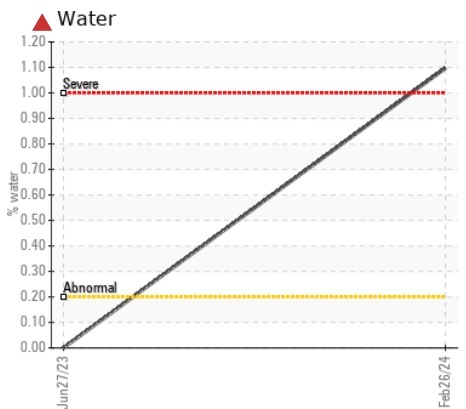
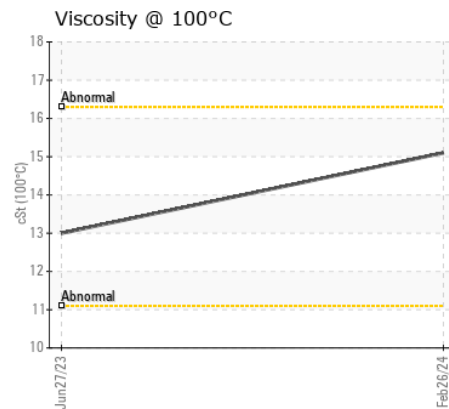
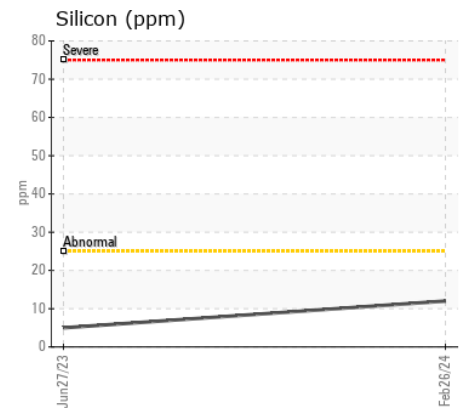
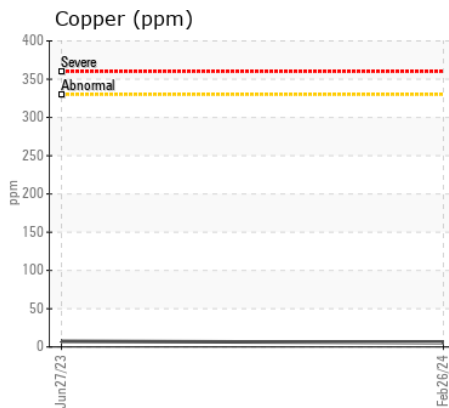
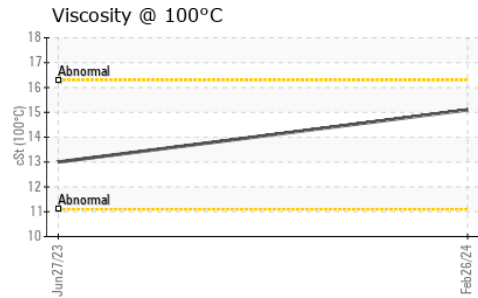
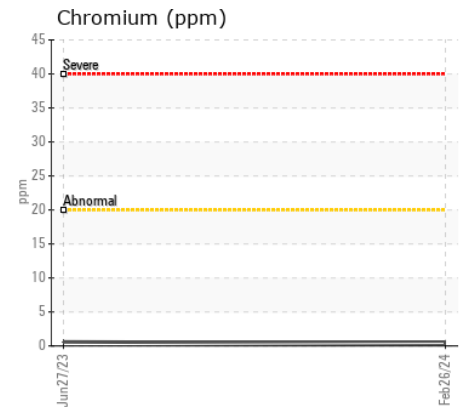
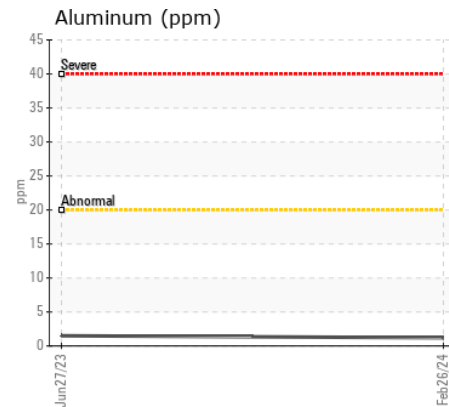
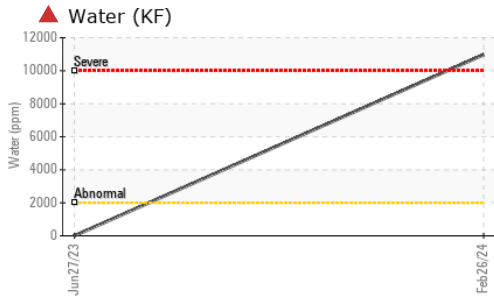
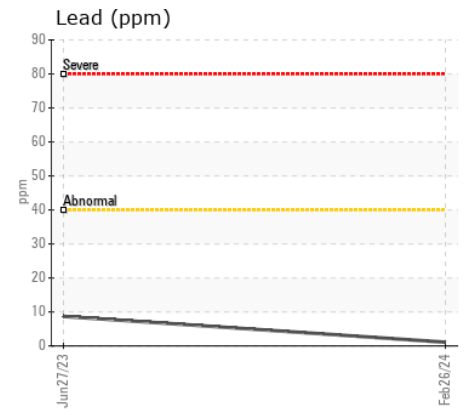
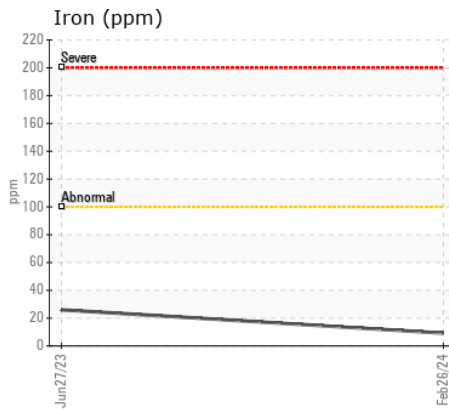
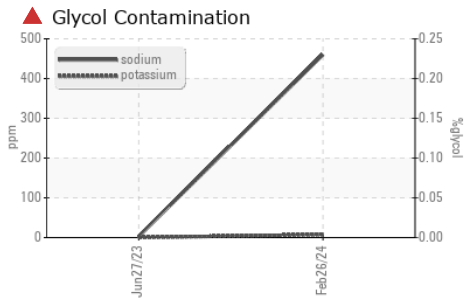
Test for glycol is positive. There is a high concentration of glycol present in the oil. There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>12</b>	5	---
Potassium	ppm	ASTM D5185(m)	>20	<b>8</b>	0	---
Fuel		WC Method	>5	<b>&lt;1.0</b>	<1.0	---
Water	%	ASTM D6304*	>0.2	<b>1.097</b>	---	---
ppm Water	ppm	ASTM D6304*	>2000	<b>10976</b>	---	---
Glycol	%	ASTM D7922*		<b>&gt;.70</b>	NEG	---
Soot %	%	ASTM D7844*	>3	<b>0.2</b>	0.3	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>11.4</b>	9.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>15.3</b>	24.2	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.2	<b>.2%</b>	NEG	---

## FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185(m)	>50	<b>460</b>	3	---
Boron	ppm	ASTM D5185(m)		<b>91</b>	41	---
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185(m)		<b>49</b>	41	---
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)		<b>453</b>	497	---
Calcium	ppm	ASTM D5185(m)		<b>1533</b>	1640	---
Phosphorus	ppm	ASTM D5185(m)		<b>675</b>	790	---
Zinc	ppm	ASTM D5185(m)		<b>808</b>	879	---
Sulfur	ppm	ASTM D5185(m)		<b>2044</b>	2074	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>22.4</b>	24.9	---
Visc @ 100°C	cSt	ASTM D7279(m)		<b>15.1</b>	13.0	---



ISO 17025:2017  
Accredited  
Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0423840 **Received** : 28 Feb 2024  
**Lab Number** : 02618557 **Tested** : 28 Feb 2024  
**Unique Number** : 5735667 **Diagnosed** : 29 Feb 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: Glycol, KF, Visual )

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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