



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**292001**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON DELO 400 XLE 10W30 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0853055</b>	WC0853225	WC0702949
Sample Date		Client Info		<b>22 Jan 2024</b>	06 Nov 2023	08 Aug 2023
Machine Age	kms	Client Info		<b>346469</b>	335857	322931
Oil Age	kms	Client Info		<b>8253</b>	0	0
Filter Age	kms	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	Not Changd	Changed
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>24</b>	13	36
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	1
Nickel	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>4</b>	3	11
Lead	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>330	<b>2</b>	2	3
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

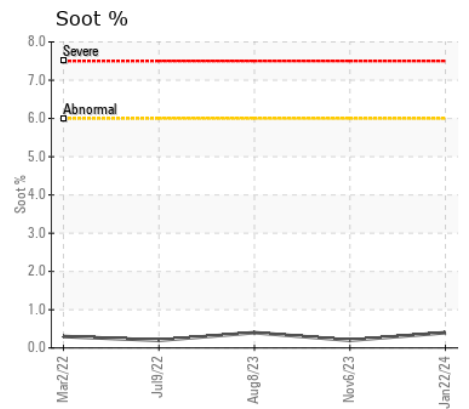
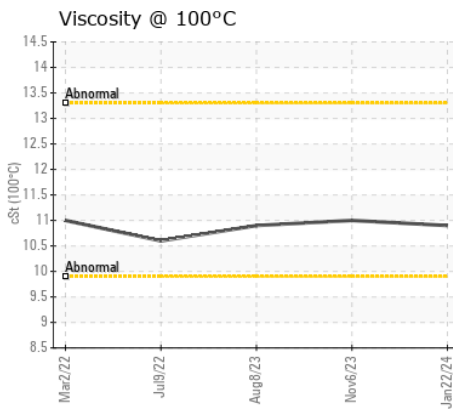
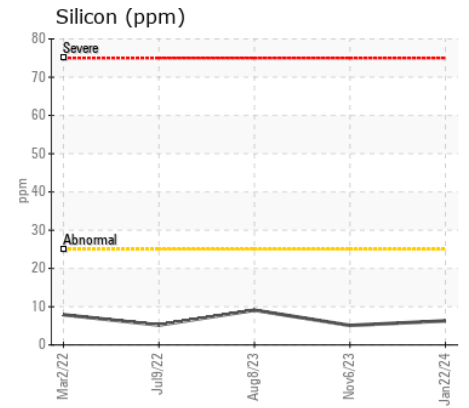
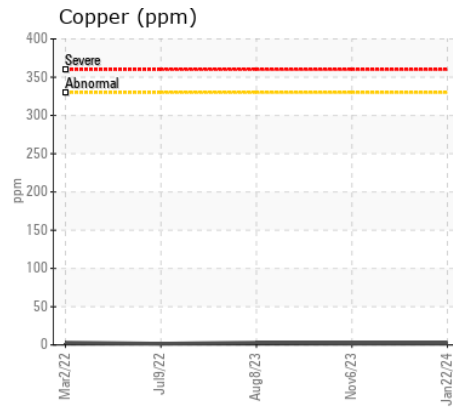
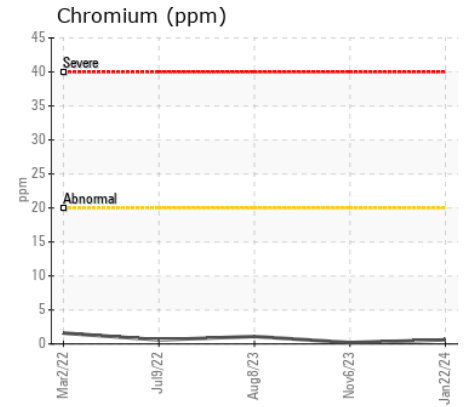
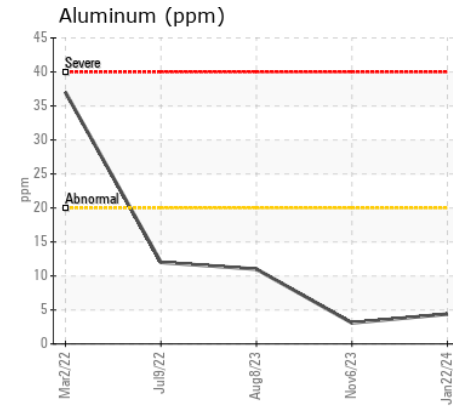
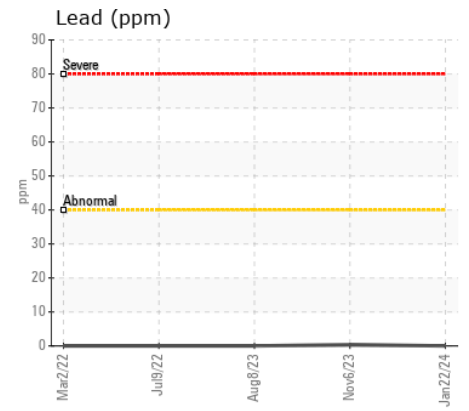
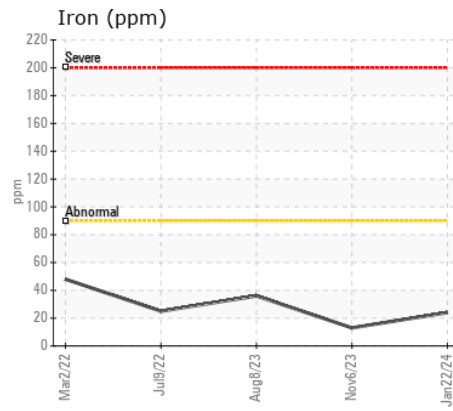
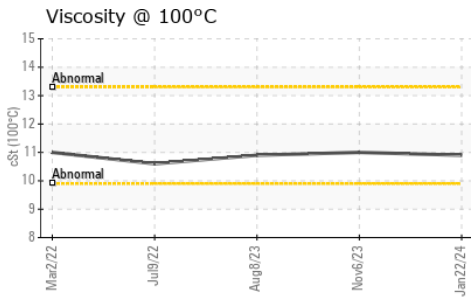
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>6</b>	5	9
Potassium	ppm	ASTM D5185(m)	>20	<b>6</b>	4	15
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	▲ 2.7
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0.4</b>	0.2	0.4
Nitration	Abs/cm	ASTM D7624*	>20	<b>12.0</b>	10.5	12.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>24.7</b>	21.3	25.9
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>2</b>	2	3
Boron	ppm	ASTM D5185(m)		<b>28</b>	43	▲ 34
Barium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)		<b>2</b>	2	▲ 3
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>681</b>	691	758
Calcium	ppm	ASTM D5185(m)		<b>1297</b>	1278	1427
Phosphorus	ppm	ASTM D5185(m)		<b>633</b>	647	706
Zinc	ppm	ASTM D5185(m)		<b>717</b>	749	781
Sulfur	ppm	ASTM D5185(m)		<b>2565</b>	2430	2460
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>20.8</b>	17.4	21.9
Visc @ 100°C	cSt	ASTM D7279(m)		<b>10.9</b>	11.0	▲ 10.9



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0853055 **Received** : 20 Feb 2024  
**Lab Number** : 02616582 **Tested** : 20 Feb 2024  
**Unique Number** : 5733692 **Diagnosed** : 20 Feb 2024 - Wes Davis  
**Test Package** : MOB 1

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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