



# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**51945**  
Component  
**Diesel Engine**  
Fluid  
**CHEVRON DELO 400 SAE 10W30 (--- LTR)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0893717</b>	WC0847652	WC0847631
Sample Date		Client Info		<b>11 Mar 2024</b>	11 Dec 2023	26 Sep 2023
Machine Age	mls	Client Info		<b>176943</b>	149874	123354
Oil Age	mls	Client Info		<b>27069</b>	27519	28221
Filter Age	mls	Client Info		<b>27069</b>	27519	28221
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>90	<b>25</b>	19	20
Chromium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	2
Nickel	ppm	ASTM D5185(m)	>2	<b>&lt;1</b>	<1	1
Titanium	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>3</b>	7	21
Lead	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185(m)	>330	<b>1</b>	1	2
Tin	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

## CONTAMINATION

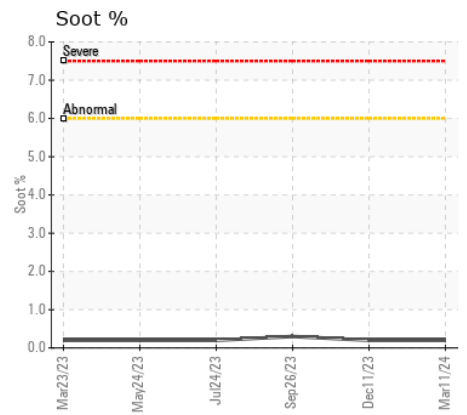
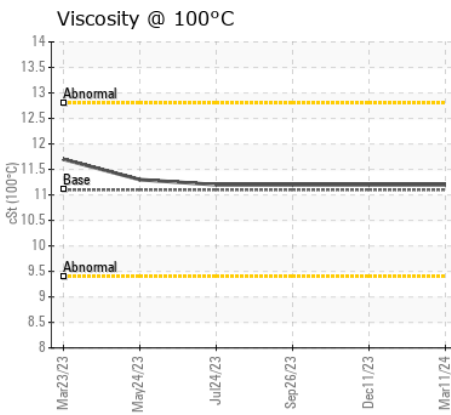
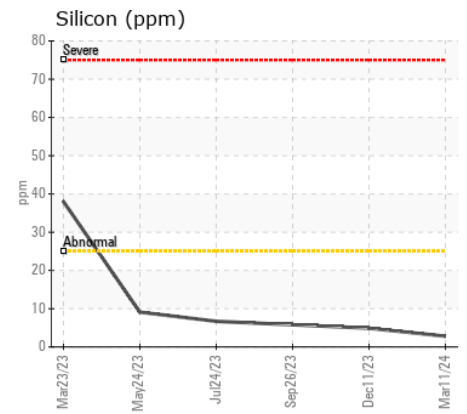
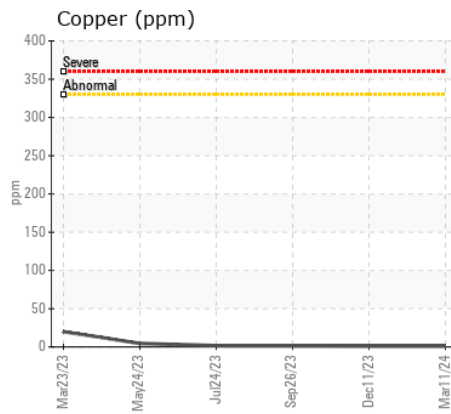
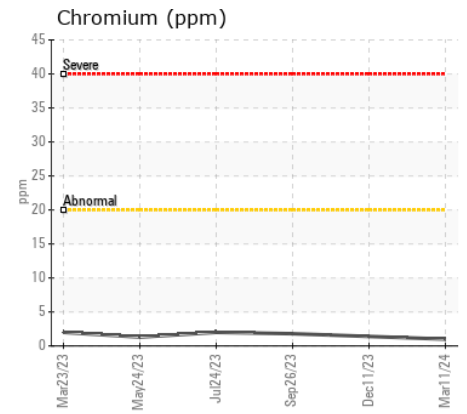
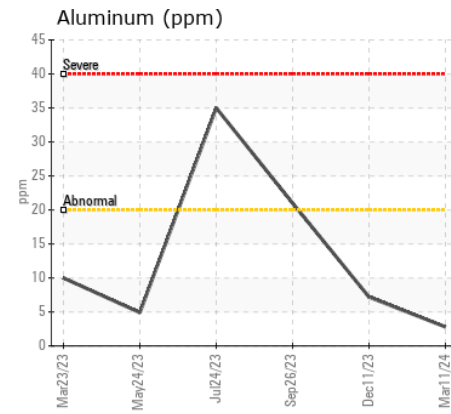
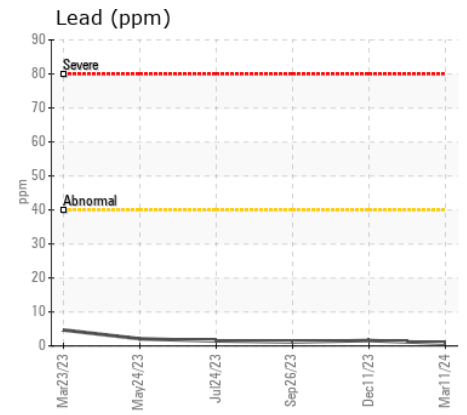
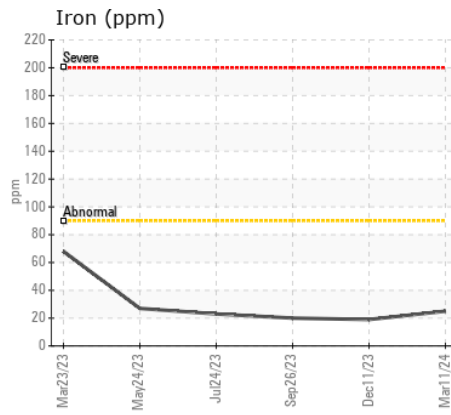
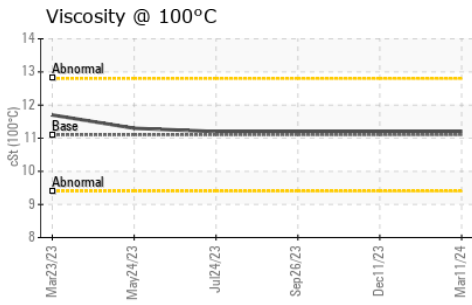
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>3</b>	5	6
Potassium	ppm	ASTM D5185(m)	>20	<b>4</b>	11	53
Fuel		WC Method	>3.0	<b>&lt;1.0</b>	<1.0	<1.0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	ASTM D7844*	>6	<b>0.2</b>	0.2	0.3
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.4</b>	8.0	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>19.8</b>	19.8	20.3
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	2
Boron	ppm	ASTM D5185(m)		<b>2</b>	4	2
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>60</b>	59	57
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)		<b>999</b>	968	947
Calcium	ppm	ASTM D5185(m)		<b>1077</b>	1097	1087
Phosphorus	ppm	ASTM D5185(m)	1260	<b>983</b>	1003	992
Zinc	ppm	ASTM D5185(m)	1400	<b>1202</b>	1207	1203
Sulfur	ppm	ASTM D5185(m)		<b>2349</b>	2583	2539
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>16.1</b>	15.8	15.8
Visc @ 100°C	cSt	ASTM D7279(m)	11.1	<b>11.2</b>	11.2	11.2



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0893717  
**Lab Number** : 02625534  
**Unique Number** : 5750653  
**Test Package** : MOB 1  
**Received** : 01 Apr 2024  
**Tested** : 01 Apr 2024  
**Diagnosed** : 01 Apr 2024 - Wes Davis

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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.