



# OIL ANALYSIS REPORT

Sample Rating Trend

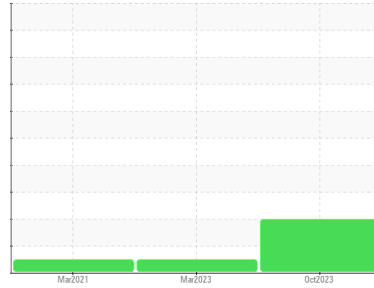
FUEL



Area  
**[6296]**  
Machine Id  
**T37**

Component  
**Diesel Engine**  
Fluid

**CHEVRON DELO 400 SAE 10W30 (--- GAL)**



## DIAGNOSIS

### Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0846143</b>	WC0790205	WC0559292
Sample Date	Client Info		<b>17 Oct 2023</b>	24 Mar 2023	10 Mar 2021
Machine Age	kms	Client Info	<b>215726</b>	579201	449793
Oil Age	kms	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>SEVERE</b>	NORMAL	NORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		<b>NEG</b>	NEG	0.0

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >200	<b>33</b>	12	10
Chromium	ppm	ASTM D5185(m) >20	<b>1</b>	<1	<1
Nickel	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m) >2	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m) >2	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185(m) >30	<b>4</b>	6	6
Lead	ppm	ASTM D5185(m) >30	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m) >30	<b>1</b>	3	3
Tin	ppm	ASTM D5185(m) >15	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)	<b>0</b>	0	<1
Beryllium	ppm	ASTM D5185(m)	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	<b>5</b>	182	139
Barium	ppm	ASTM D5185(m)	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	<b>39</b>	104	83
Manganese	ppm	ASTM D5185(m)	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	<b>595</b>	624	655
Calcium	ppm	ASTM D5185(m)	<b>1202</b>	1705	1522
Phosphorus	ppm	ASTM D5185(m) 1260	<b>808</b>	806	696
Zinc	ppm	ASTM D5185(m) 1400	<b>964</b>	872	855
Sulfur	ppm	ASTM D5185(m)	<b>2250</b>	2307	2312
Lithium	ppm	ASTM D5185(m)	<b>&lt;1</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >30	<b>5</b>	5	6
Sodium	ppm	ASTM D5185(m)	<b>3</b>	2	3
Potassium	ppm	ASTM D5185(m) >20	<b>5</b>	2	12
Fuel	%	ASTM D7593* >3.0	<b>6.5</b>	<1.0	<1.0

## INFRA-RED

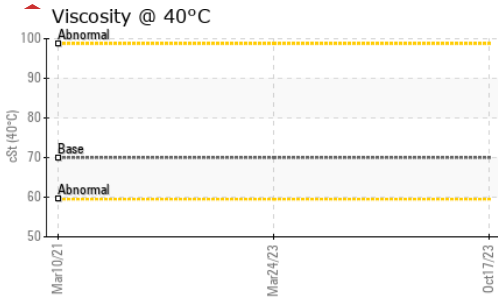
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	<b>0.5</b>	0.1	0.1
Nitration	Abs/cm	ASTM D7624* >20	<b>11.6</b>	9.3	9.6
Sulfation	Abs/.1mm	ASTM D7415* >30	<b>23.8</b>	26.0	23.6

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	<b>22.7</b>	18.9	18.7



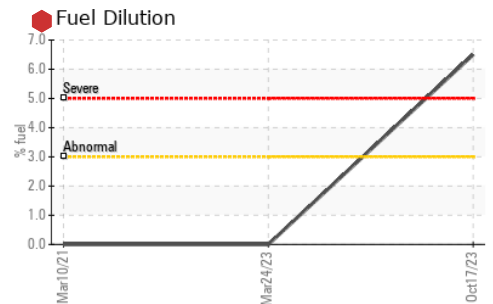
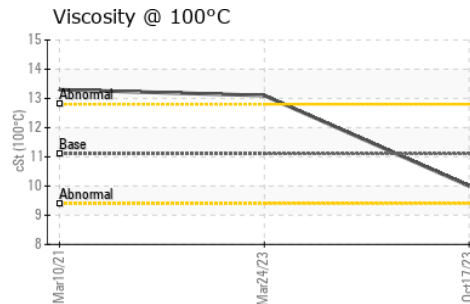
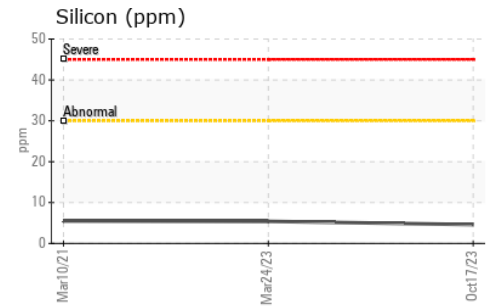
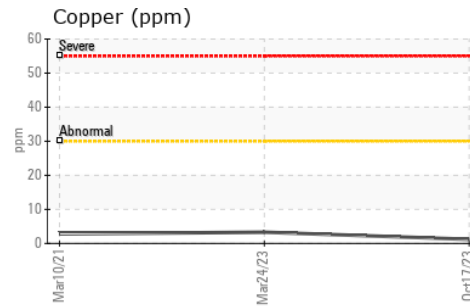
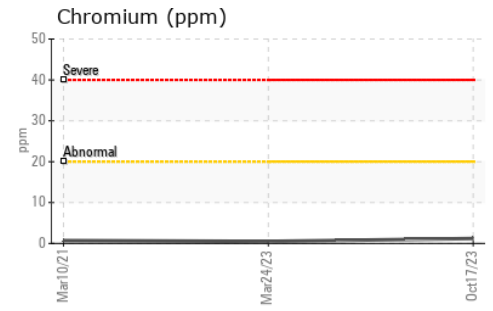
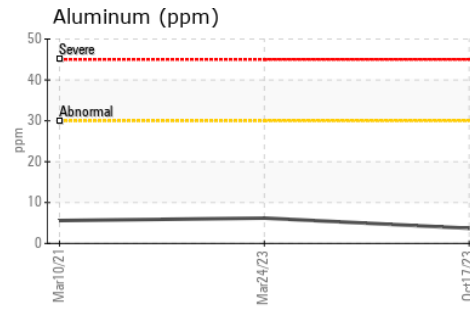
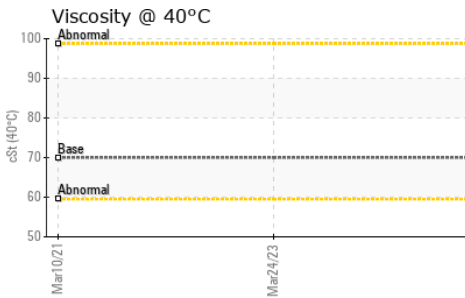
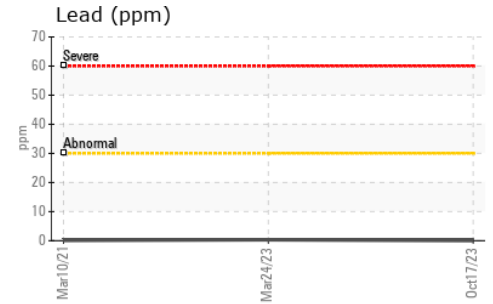
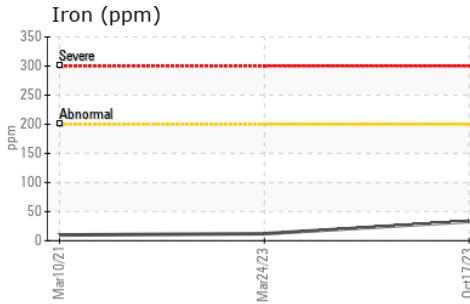
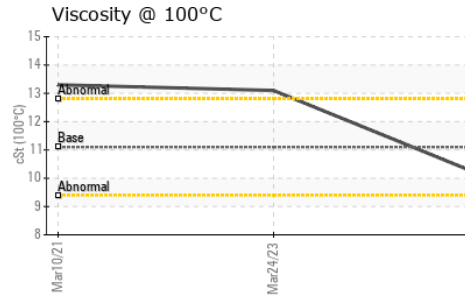
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	70	64.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.1	10.0	13.1
Viscosity Index (VI)	Scale	ASTM D2270*	150	140	---

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0846143 **Received** : 20 Oct 2023  
**Lab Number** : 02590488 **Diagnosed** : 23 Oct 2023  
**Unique Number** : 5659554 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, KV40, PercentFuel, VI )

**CANADA CLEAN FUELS**  
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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.