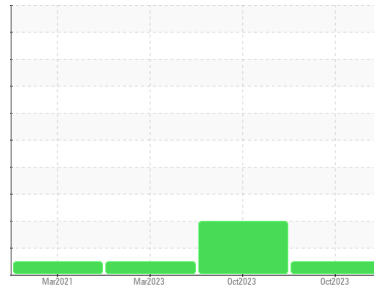




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
[6346]
 Machine Id
T37

Component
Diesel Engine
 Fluid

CHEVRON DELO 400 SDE SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0846136	WC0846143	WC0790205
Sample Date	Client Info		26 Oct 2023	17 Oct 2023	24 Mar 2023
Machine Age	kms	Client Info	615918	215726	579201
Oil Age	kms	Client Info	0	0	0
Oil Changed	Client Info		Not Changed	Not Changed	Not Changed
Sample Status			NORMAL	SEVERE	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

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

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	323	5	182
Barium	ppm	ASTM D5185(m)	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	114	39	104
Manganese	ppm	ASTM D5185(m)	0	0	<1
Magnesium	ppm	ASTM D5185(m)	746	595	624
Calcium	ppm	ASTM D5185(m)	1787	1202	1705
Phosphorus	ppm	ASTM D5185(m) 760	867	808	806
Zinc	ppm	ASTM D5185(m) 800	1029	964	872
Sulfur	ppm	ASTM D5185(m) 3000	2591	2250	2307
Lithium	ppm	ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >30	5	5	5
Sodium	ppm	ASTM D5185(m)	3	3	2
Potassium	ppm	ASTM D5185(m) >20	2	5	2
Fuel	%	ASTM D7593* >3.0	0.7	6.5	<1.0

INFRA-RED

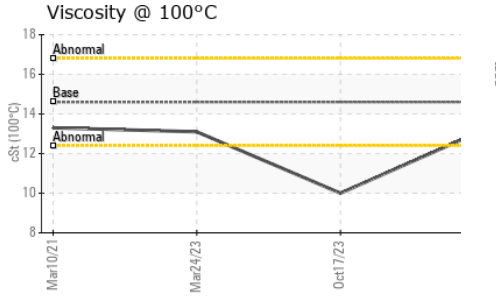
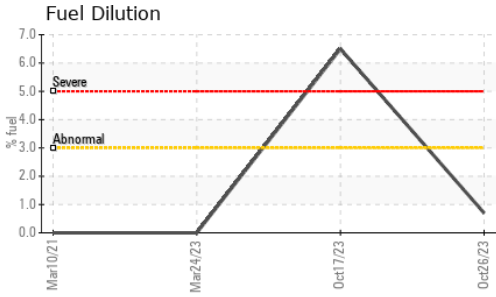
	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0	0.5	0.1
Nitration	Abs/cm	ASTM D7624* >20	5.9	11.6	9.3
Sulfation	Abs/.1mm	ASTM D7415* >30	22.4	23.8	26.0

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414* >25	16.3	22.7	18.9



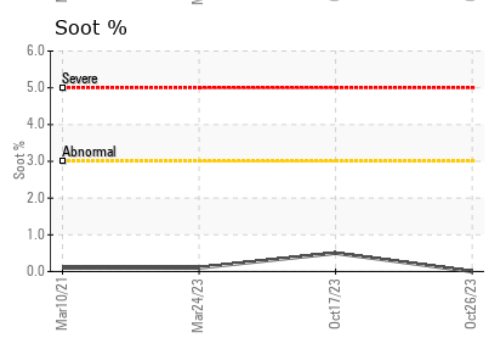
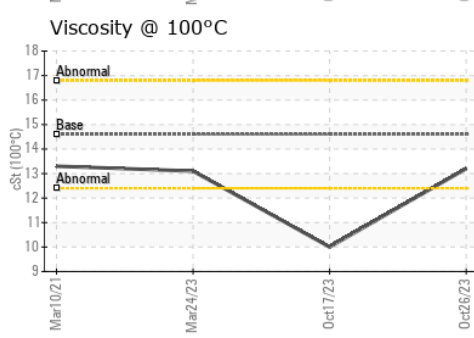
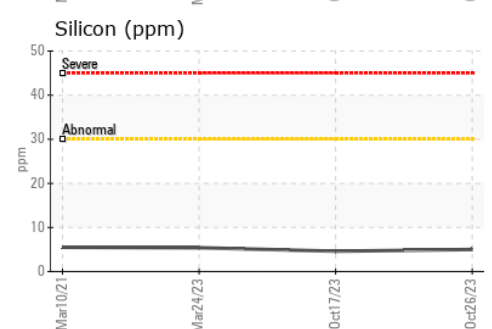
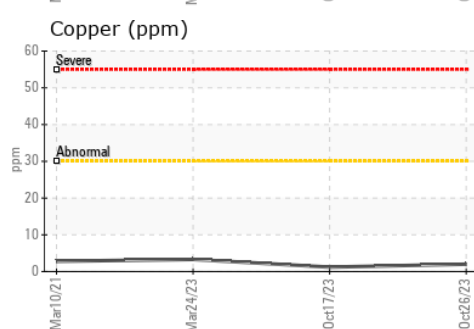
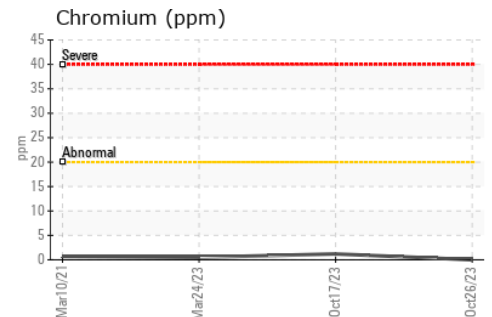
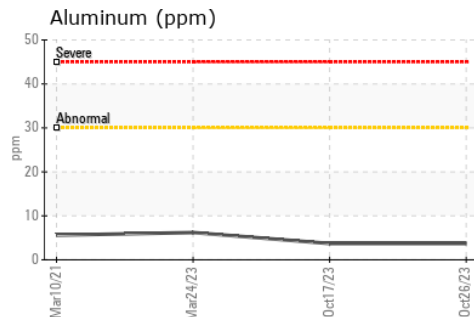
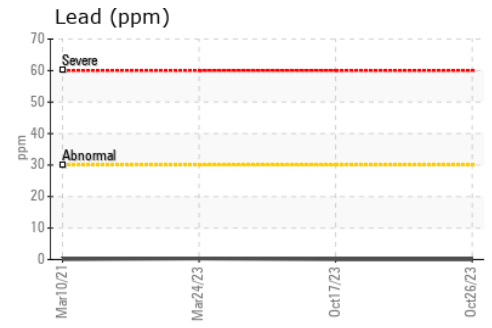
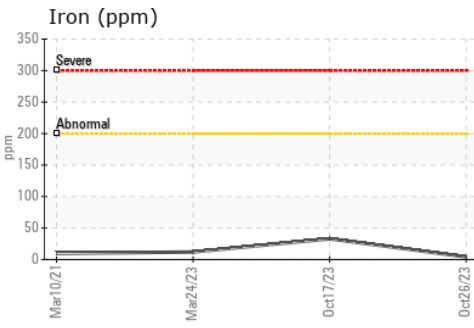
OIL ANALYSIS REPORT



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 @ 100°C	cSt	ASTM D7279(m)	14.6	13.2	10.0

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0846136 **Received** : 31 Oct 2023
Lab Number : 02592862 **Diagnosed** : 01 Nov 2023
Unique Number : 5669941 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: PercentFuel)

CANADA CLEAN FUELS
 4425 CHESSWOOD DR
 TORONTO, ON
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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.