



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

[44633298]

Machine Id

L1453

Component

Diesel Engine

Fluid

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

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0703076	WC0703070	---
Sample Date		Client Info		15 May 2024	02 May 2024	---
Machine Age	kms	Client Info		65457	59216	---
Oil Age	kms	Client Info		65457	59216	---
Filter Age	kms	Client Info		65457	59216	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>90	69	49	---
Chromium	ppm	ASTM D5185(m)	>20	1	1	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	9	25	---
Lead	ppm	ASTM D5185(m)	>40	5	4	---
Copper	ppm	ASTM D5185(m)	>330	23	26	---
Tin	ppm	ASTM D5185(m)	>15	3	4	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

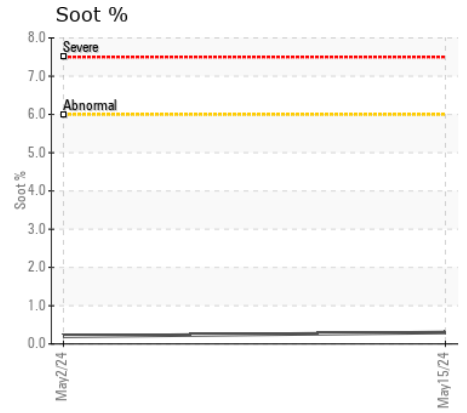
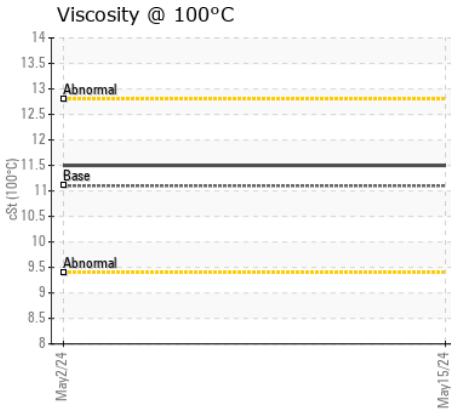
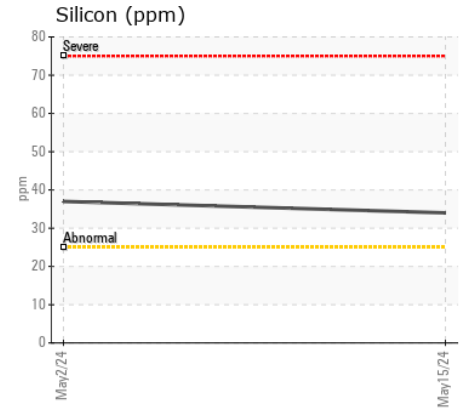
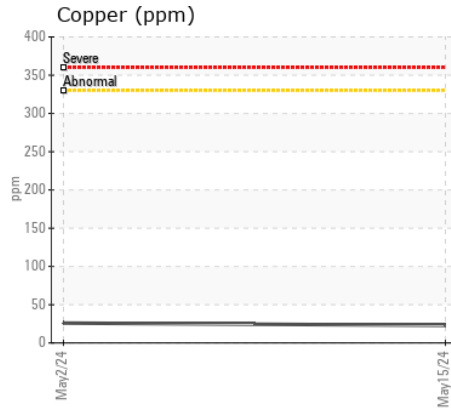
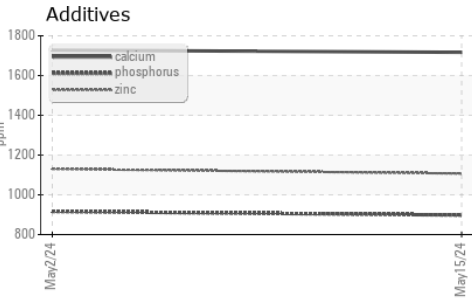
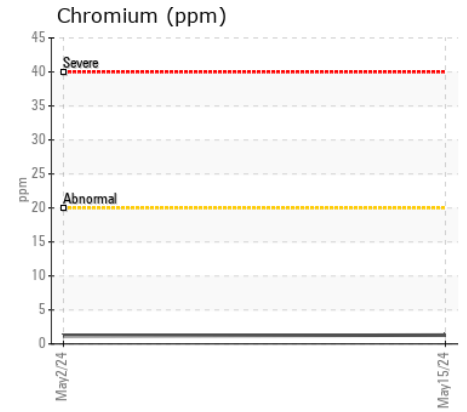
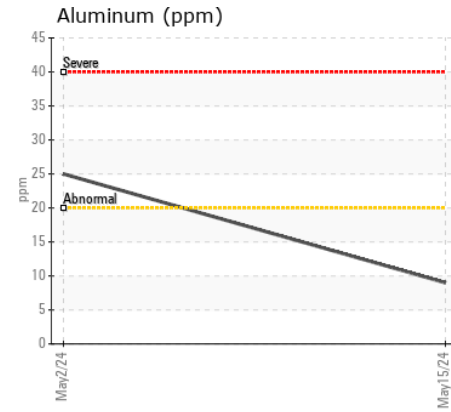
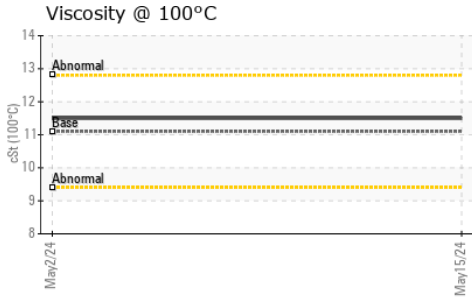
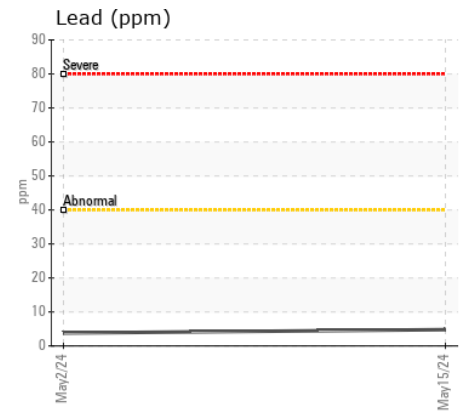
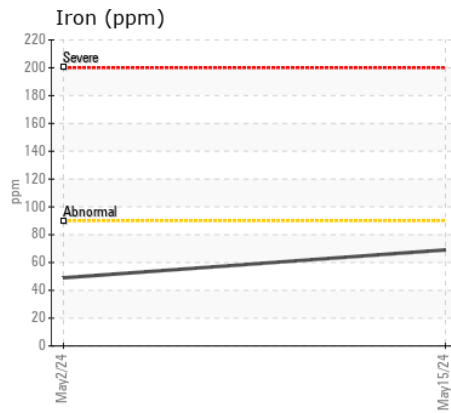
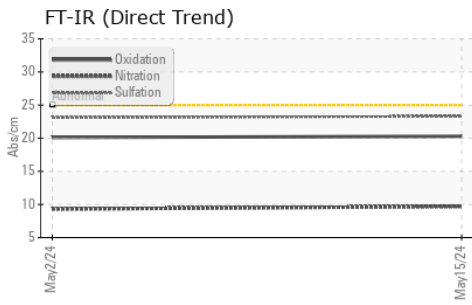
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	34	37	---
Potassium	ppm	ASTM D5185(m)	>20	30	68	---
Fuel		WC Method	>3.0	<1.0	<1.0	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	ASTM D7844*	>6	0.3	0.2	---
Nitration	Abs/cm	ASTM D7624*	>20	9.7	9.3	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.3	23.1	---
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		5	5	---
Boron	ppm	ASTM D5185(m)		30	39	---
Barium	ppm	ASTM D5185(m)		4	4	---
Molybdenum	ppm	ASTM D5185(m)		54	59	---
Manganese	ppm	ASTM D5185(m)		4	4	---
Magnesium	ppm	ASTM D5185(m)		499	467	---
Calcium	ppm	ASTM D5185(m)		1717	1728	---
Phosphorus	ppm	ASTM D5185(m)	1260	898	916	---
Zinc	ppm	ASTM D5185(m)	1400	1107	1130	---
Sulfur	ppm	ASTM D5185(m)		2215	2247	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.3	20.1	---
Visc @ 100°C	cSt	ASTM D7279(m)	11.1	11.5	11.5	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0703076 **Received** : 30 May 2024
Lab Number : 02639002 **Tested** : 30 May 2024
Unique Number : 5788164 **Diagnosed** : 30 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Visual)

RUSH TRUCK CENTRES OF CANADA
 1750 MCCONNELL AVE
 CORNWALL, ON
 CA K6H 5V3
 Contact: Service Manager
 cornwallservice@rushtruckcentres.ca

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.