



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL

Machine Id
5578
 Component
Diesel Engine
 Fluid
CHEVRON DELO 400 LE 15W40 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as CHEVRON DELO 400 LE 15W40, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0108230	GFL0047665	---
Sample Date		Client Info		05 Apr 2024	26 Jan 2024	---
Machine Age	hrs	Client Info		17065	16635	---
Oil Age	hrs	Client Info		430	202	---
Filter Age	hrs	Client Info		430	202	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>165	19	20	---
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	---
Titanium	ppm	ASTM D5185(m)	>2	0	0	---
Silver	ppm	ASTM D5185(m)	>2	0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	3	6	---
Lead	ppm	ASTM D5185(m)	>150	5	8	---
Copper	ppm	ASTM D5185(m)	>90	1	3	---
Tin	ppm	ASTM D5185(m)	>5	1	2	---
Vanadium	ppm	ASTM D5185(m)		0	0	---

CONTAMINATION

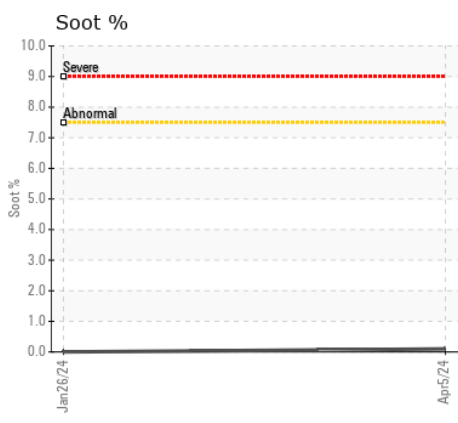
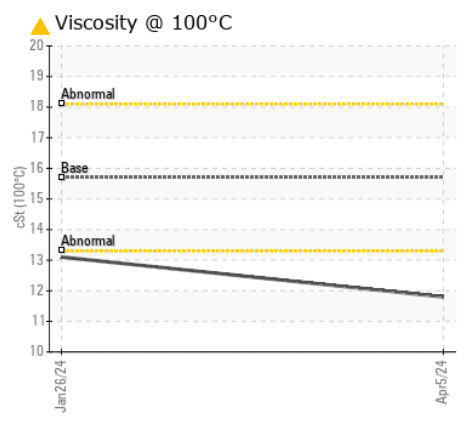
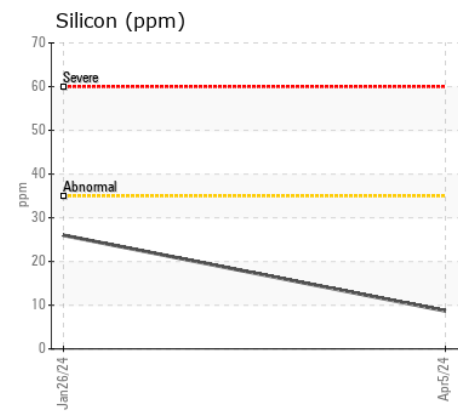
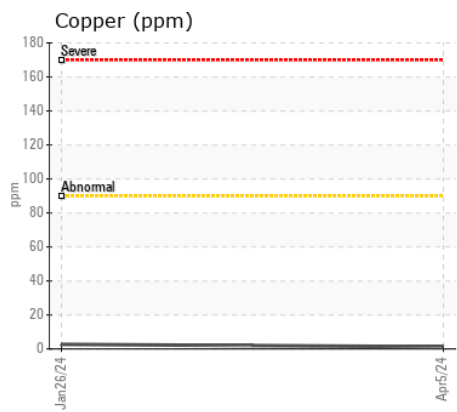
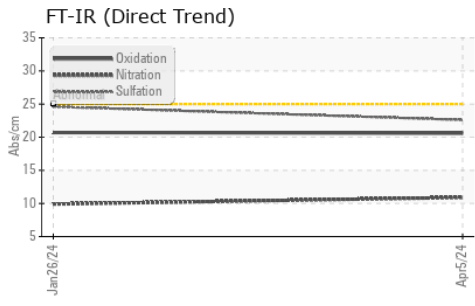
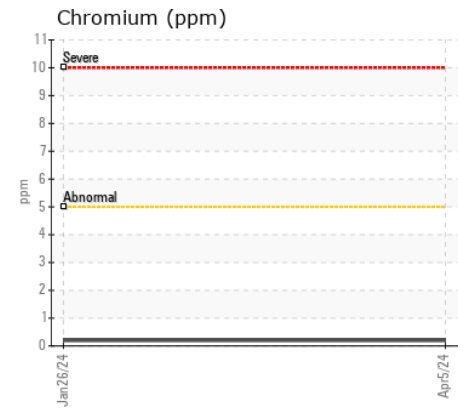
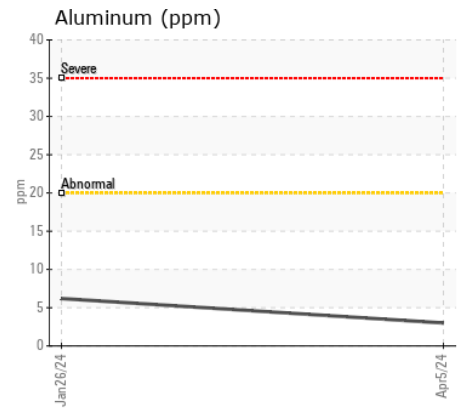
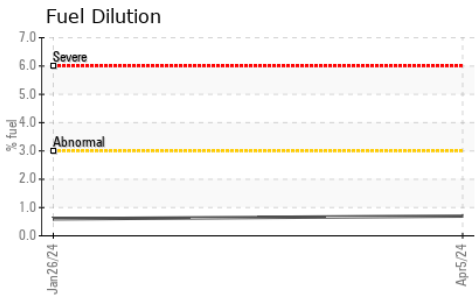
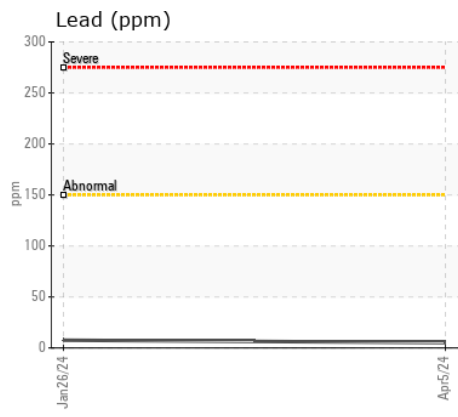
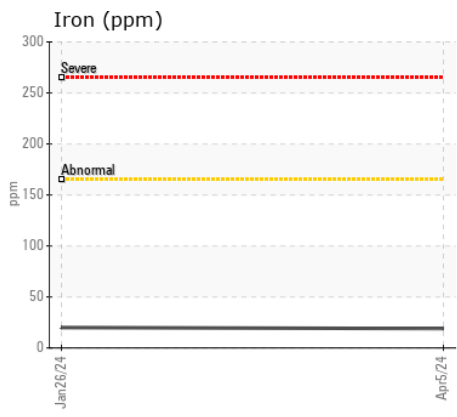
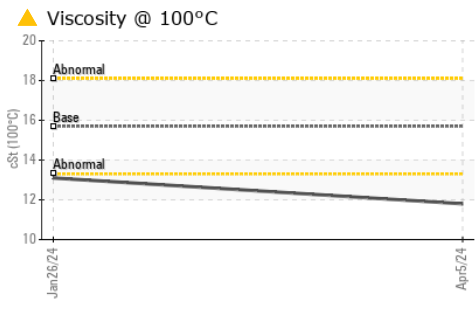
Fuel content negligible. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>35	9	26	---
Potassium	ppm	ASTM D5185(m)	>20	5	5	---
Fuel	%	ASTM D7593*	>3.0	0.7	0.6	---
Water		WC Method	>0.2	NEG	NEG	---
Glycol		WC Method		NEG	0.0	---
Soot %	%	ASTM D7844*	>7.5	0.1	0	---
Nitration	Abs/cm	ASTM D7624*	>20	10.9	9.9	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.6	24.6	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		2	5	---
Boron	ppm	ASTM D5185(m)		32	219	---
Barium	ppm	ASTM D5185(m)		0	0	---
Molybdenum	ppm	ASTM D5185(m)		66	116	---
Manganese	ppm	ASTM D5185(m)		<1	<1	---
Magnesium	ppm	ASTM D5185(m)		913	706	---
Calcium	ppm	ASTM D5185(m)		1256	1508	---
Phosphorus	ppm	ASTM D5185(m)	1200	1025	770	---
Zinc	ppm	ASTM D5185(m)	1300	1197	887	---
Sulfur	ppm	ASTM D5185(m)	3200	2603	2351	---
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.6	20.7	---
Visc @ 100°C	cSt	ASTM D7279(m)	15.7	▲ 11.8	13.1	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0108230 **Received** : 11 Apr 2024
Lab Number : 02628120 **Tested** : 12 Apr 2024
Unique Number : 5761252 **Diagnosed** : 12 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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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.