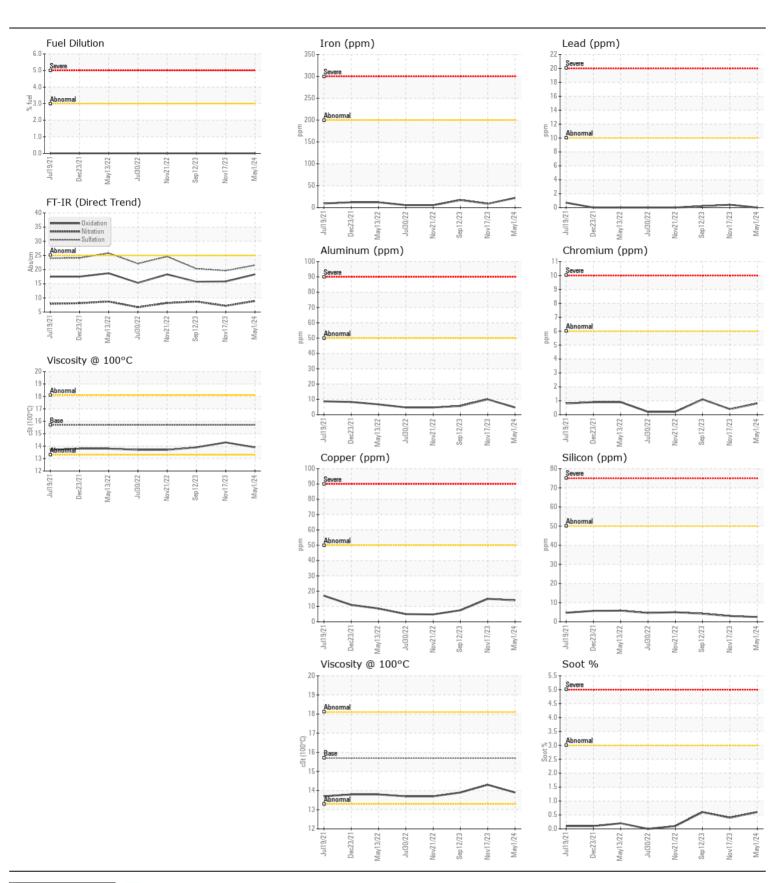
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**



GFL2160 421033

Diesel Engine

CHEVRON DELO 400 LE 15W40) (GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0121948	GFL0099667	GFL0093782
	Sample Date		Client Info		01 May 2024	17 Nov 2023	12 Sep 2023
	Machine Age	kms	Client Info		329183	289457	271373
	Oil Age	kms	Client Info		0	0	0
	Filter Age	kms	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185(m)	>200	22	9	17
All component wear rates are normal.	Chromium	ppm	ASTM D5185(m)	>6	<1	<1	1
	Nickel	ppm	ASTM D5185(m)	>3	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
	Aluminum	ppm	ASTM D5185(m)	>50	5	10	6
	Lead	ppm	ASTM D5185(m)	>10	0	<1	<1
	Copper	ppm	ASTM D5185(m)	>50	14	15	8
	Tin	ppm	ASTM D5185(m)	>6	<1	3	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185(m)	>50	2	3	4
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185(m)	>20	2	1	1
	Fuel	%	ASTM D7593*	>3.0	0.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	ASTM D7844*	>3	0.6	0.4	0.6
	Nitration	Abs/cm	ASTM D7624*	>20	8.9	7.2	8.7
	Sulfation	Abs/.1mm	ASTM D7415*	>30	21.5	19.6	20.3
	Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185(m)		3	2	4
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.	Boron	ppm	ASTM D5185(m)		3	2	8
	Barium	ppm	ASTM D5185(m)		0	<1	<1
	Molybdenum	ppm	ASTM D5185(m)		63	60	64
	Manganese	ppm	ASTM D5185(m)		<1	0	0
	Magnesium	ppm	ASTM D5185(m)		1030	962	946
	Calcium	ppm	ASTM D5185(m)		1120	998	1100
	Phosphorus	ppm	ASTM D5185(m)	1200	963	930	979
	Zinc	ppm	ASTM D5185(m)	1300	1249	1190	1183
	Sulfur	ppm	ASTM D5185(m)	3200	1903	2181	2383
	Oxidation	Abs/.1mm	ASTM D7414*	>25	18.3	15.8	15.7
	Visc @ 100°C	cSt	ASTM D7279(m)	15.7	13.9	14.3	13.9





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

Lab Number Unique Number : 5776689

: GFL0121948 : 02635536

Received **Tested** Diagnosed

: 15 May 2024 : 16 May 2024 Test Package: MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

: 16 May 2024 - Kevin Marson

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 252 - GTA Hauling 3668 Weston Road North York, ON CA M9L 1W2 Contact: Amanda Cipollone acipollone@gflenv.com T:

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.

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