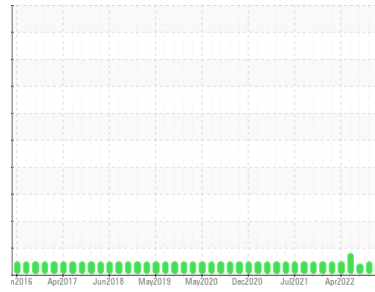




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id

10509C AUTOCAR ACX

Component

Natural Gas Engine

Fluid

PETRO CANADA DURON GEO LD 15W40 (28 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0117423	GFL0056741	GFL0087108
Sample Date	Client Info		03 Jun 2024	20 Sep 2023	06 Jul 2023
Machine Age	hrs	Client Info	23155	22292	610
Oil Age	hrs	Client Info	863	2482	0
Oil Changed	Client Info		Changed	Changed	N/A
Sample Status			ATTENTION	NORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	8	34	26
Chromium	ppm	ASTM D5185m >4	0	7	4
Nickel	ppm	ASTM D5185m >2	0	<1	<1
Titanium	ppm	ASTM D5185m	1	<1	<1
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >9	2	4	8
Lead	ppm	ASTM D5185m >30	1	5	2
Copper	ppm	ASTM D5185m >35	54	27	24
Tin	ppm	ASTM D5185m >4	<1	1	<1
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	56	5	3
Barium	ppm	ASTM D5185m 5	2	0	0
Molybdenum	ppm	ASTM D5185m 50	39	58	51
Manganese	ppm	ASTM D5185m 0	8	2	1
Magnesium	ppm	ASTM D5185m 560	511	616	509
Calcium	ppm	ASTM D5185m 1510	1489	1773	1610
Phosphorus	ppm	ASTM D5185m 780	782	738	598
Zinc	ppm	ASTM D5185m 870	837	1002	890
Sulfur	ppm	ASTM D5185m 2040	2744	2795	2609

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	17	27	33
Sodium	ppm	ASTM D5185m	5	12	7
Potassium	ppm	ASTM D5185m >20	7	7	6

INFRA-RED

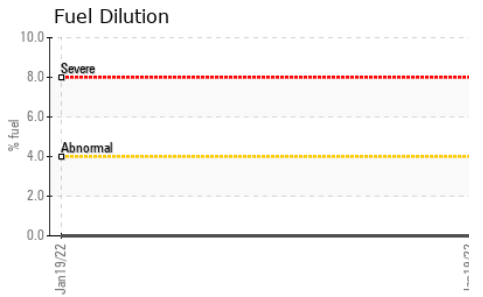
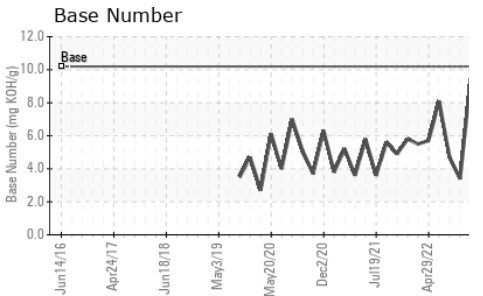
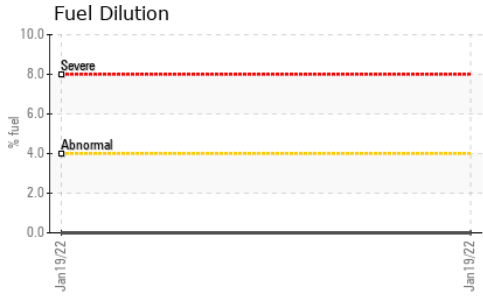
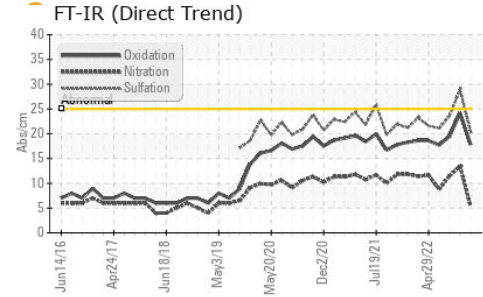
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	5.3	13.4	11.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	20.6	28.9	23.6

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	17.8	24.2	19.5
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	9.4	3.4	4.7



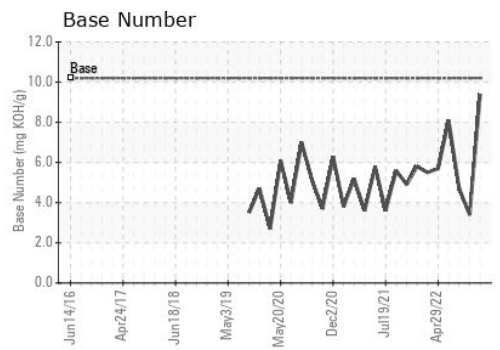
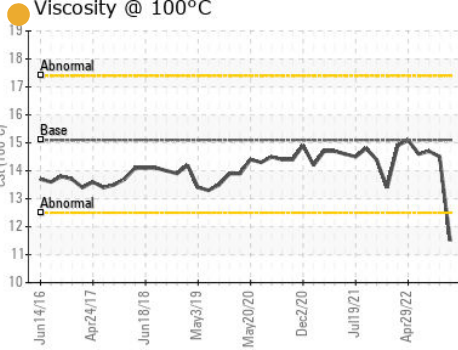
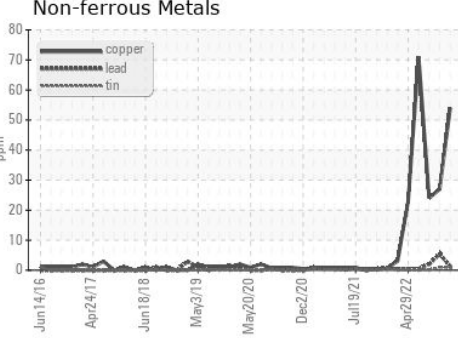
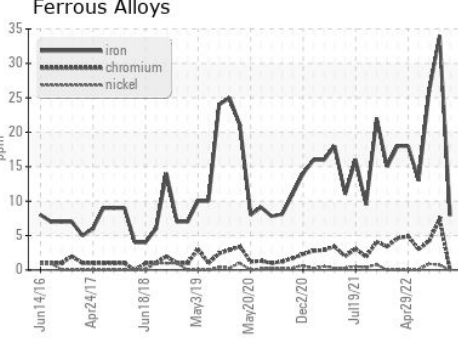
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1 ● 11.5	14.5	14.7

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0117423 **Received** : 05 Jun 2024
Lab Number : 06199805 **Tested** : 09 Jun 2024
Unique Number : 11061928 **Diagnosed** : 09 Jun 2024 - Doug Bogart
Test Package : FLEET (Additional Tests: FUELDILUTION, PercentFuel)

GFL Environmental - 001 - Raleigh(CNG)
 3741 Conquest Drive
 Garner, NC
 US 27529
 Contact: Craig Johnson
 craig.johnson@gflenv.com
 T: (919)662-7100
 F: (919)662-7130

To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)