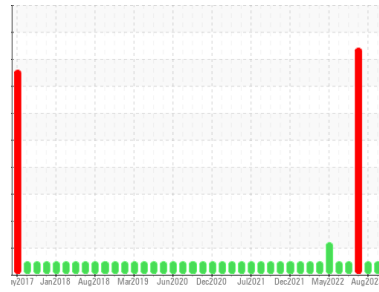




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
3746C AUTOCAR ACX

Component
Natural Gas Engine

Fluid
PETRO CANADA DURON GEO LD 15W40 (48 QTS)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0103206	GFL0089270	GFL0056505
Sample Date	Client Info	12 Feb 2024	30 Aug 2023	10 Nov 2022
Machine Age	hrs	19596	18382	16048
Oil Age	hrs	1214	2334	1466
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	SEVERE

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG
Glycol	WC Method	---	0.0	0.10

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >50	36	19	18
Chromium	ppm ASTM D5185m >4	3	1	2
Nickel	ppm ASTM D5185m >2	<1	<1	<1
Titanium	ppm ASTM D5185m	0	<1	0
Silver	ppm ASTM D5185m >3	0	0	<1
Aluminum	ppm ASTM D5185m >9	4	2	2
Lead	ppm ASTM D5185m >30	4	0	4
Copper	ppm ASTM D5185m >35	1	2	3
Tin	ppm ASTM D5185m >4	0	0	<1
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 50	13	0	35
Barium	ppm ASTM D5185m 5	9	0	0
Molybdenum	ppm ASTM D5185m 50	67	49	67
Manganese	ppm ASTM D5185m 0	<1	1	1
Magnesium	ppm ASTM D5185m 560	653	533	576
Calcium	ppm ASTM D5185m 1510	1657	1571	1637
Phosphorus	ppm ASTM D5185m 780	730	684	795
Zinc	ppm ASTM D5185m 870	1090	933	891
Sulfur	ppm ASTM D5185m 2040	2231	2524	3015

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	13	18	18
Sodium	ppm ASTM D5185m	6	7	441
Potassium	ppm ASTM D5185m >20	4	0	381

INFRA-RED

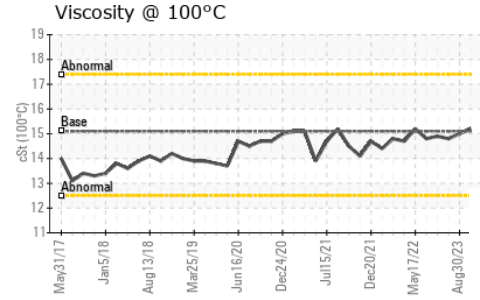
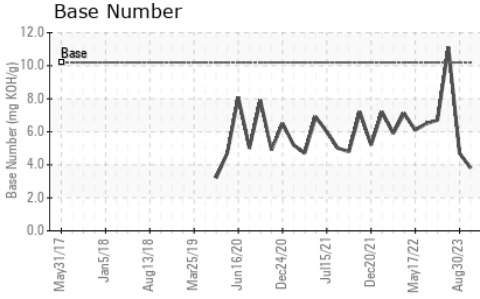
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	0	0	0.1
Nitration	Abs/cm *ASTM D7624 >20	12.3	10.4	10.3
Sulfation	Abs/.1mm *ASTM D7415 >30	27.3	22.9	21.2

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	23.3	19.7	17.4
Base Number (BN)	mg KOH/g ASTM D2896 10.2	3.8	4.7	11.1



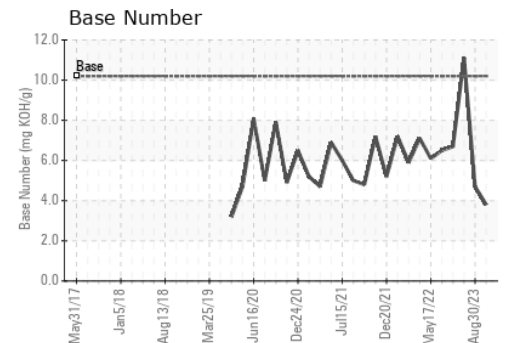
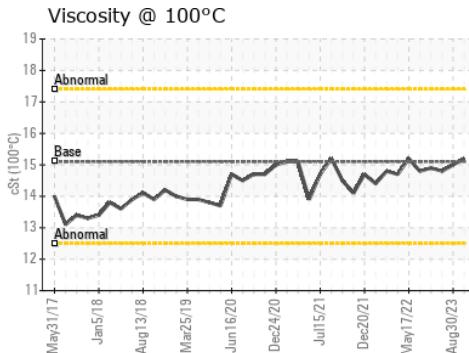
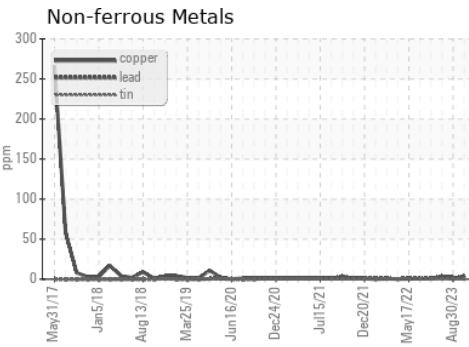
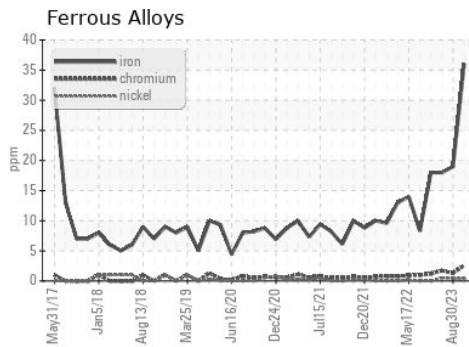
OIL ANALYSIS REPORT



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	NONE
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	15.2	15.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0103206
 Lab Number : 06088470
 Unique Number : 10875915
 Test Package : FLEET

Received : 14 Feb 2024
 Tested : 15 Feb 2024
 Diagnosed : 15 Feb 2024 - Wes Davis

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)