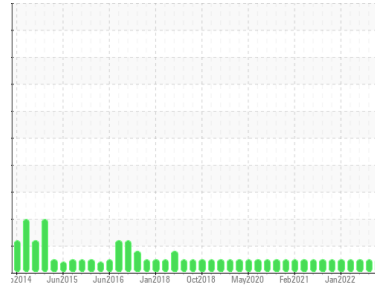




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
3496C AUTOCAR

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	GFL0087103	GFL0056648	GFL0052346
Sample Date	Client Info	12 Jul 2023	04 Apr 2023	24 Aug 2022
Machine Age	hrs	1196	619	0
Oil Age	hrs	0	622	0
Oil Changed	Client Info	Not Chngd	Changed	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	13	33	14
Chromium	ppm	ASTM D5185m >4	2	8	2
Nickel	ppm	ASTM D5185m >2	<1	2	<1
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m >3	0	0	<1
Aluminum	ppm	ASTM D5185m >9	3	4	2
Lead	ppm	ASTM D5185m >30	1	8	1
Copper	ppm	ASTM D5185m >35	<1	3	<1
Tin	ppm	ASTM D5185m >4	<1	1	1
Antimony	ppm	ASTM D5185m	---	---	---
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	6	13	9
Barium	ppm	ASTM D5185m 5	2	2	0
Molybdenum	ppm	ASTM D5185m 50	55	63	56
Manganese	ppm	ASTM D5185m 0	<1	1	<1
Magnesium	ppm	ASTM D5185m 560	523	566	537
Calcium	ppm	ASTM D5185m 1510	1630	1723	1554
Phosphorus	ppm	ASTM D5185m 780	702	779	633
Zinc	ppm	ASTM D5185m 870	978	1015	874
Sulfur	ppm	ASTM D5185m 2040	2708	2710	2306

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	12	9	6
Sodium	ppm	ASTM D5185m	20	52	42
Potassium	ppm	ASTM D5185m >20	6	6	2

INFRA-RED

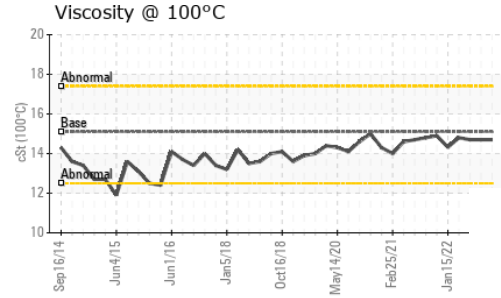
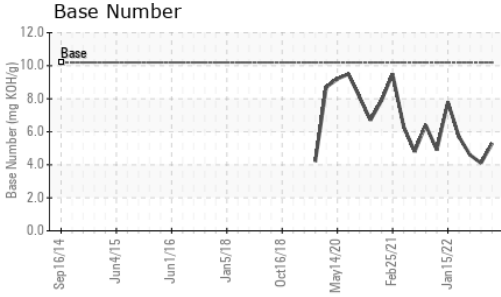
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	0.1	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	11.1	13.0	12.3
Sulfation	Abs/.1mm	*ASTM D7415 >30	21.8	26.2	25.1

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.4	20.5	20.8
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	5.3	4.1	4.6



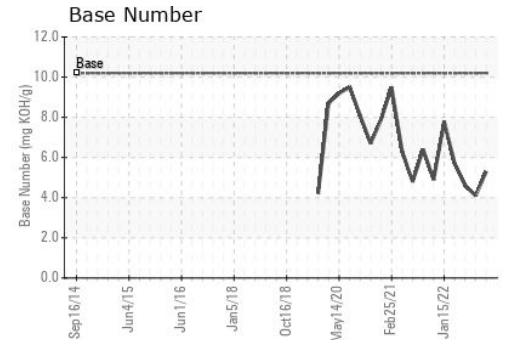
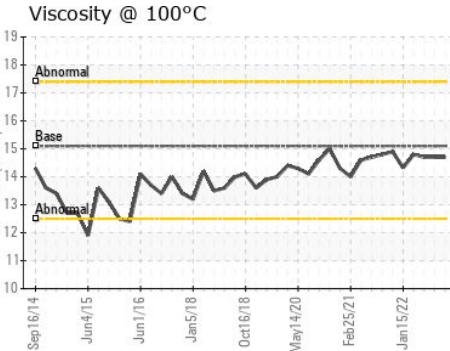
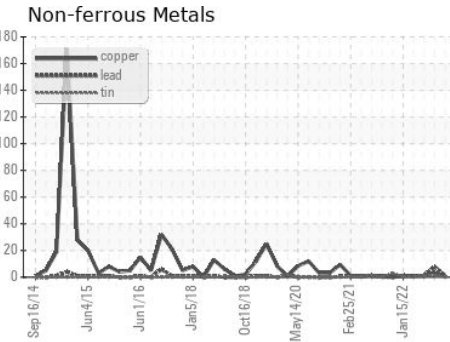
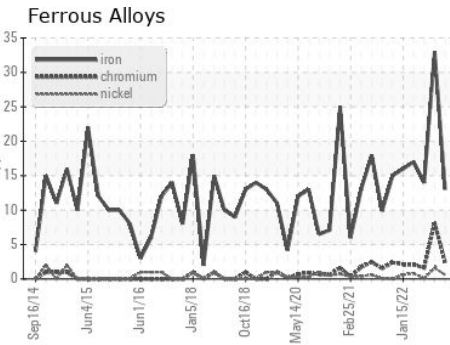
OIL ANALYSIS REPORT



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	14.7	14.7

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0087103 Received : 14 Jul 2023
 Lab Number : 05898334 Diagnosed : 17 Jul 2023
 Unique Number : 10559690 Diagnostician : Wes Davis
 Test Package : FLEET

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)