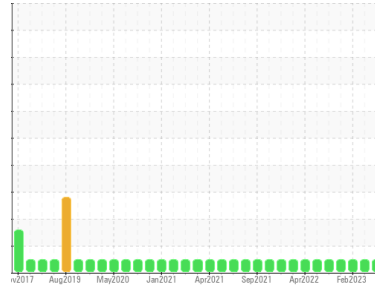




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
2688C

Component
Natural Gas Engine

Fluid
PETRO CANADA DURON GEO LD 15W40 (12 GAL)

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	history 1	history 2
Sample Number	Client Info	GFL0083301	GFL0065759	GFL0065780
Sample Date	Client Info	29 Jun 2023	14 Apr 2023	08 Feb 2023
Machine Age	hrs Client Info	6612	1007	6612
Oil Age	hrs Client Info	436	6612	573
Oil Changed	Client Info	N/A	N/A	Changed
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

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

ADDITIVES

method	limit/base	current	history 1	history 2
Boron ppm ASTM D5185m	50	34	50	42
Barium ppm ASTM D5185m	5	14	0	0
Molybdenum ppm ASTM D5185m	50	41	49	48
Manganese ppm ASTM D5185m	0	0	<1	<1
Magnesium ppm ASTM D5185m	560	482	556	531
Calcium ppm ASTM D5185m	1510	1321	1544	1499
Phosphorus ppm ASTM D5185m	780	653	768	710
Zinc ppm ASTM D5185m	870	802	916	883
Sulfur ppm ASTM D5185m	2040	2475	2918	2711

CONTAMINANTS

method	limit/base	current	history 1	history 2
Silicon ppm ASTM D5185m	>+100	4	3	5
Sodium ppm ASTM D5185m		2	3	1
Potassium ppm ASTM D5185m	>20	1	1	0

INFRA-RED

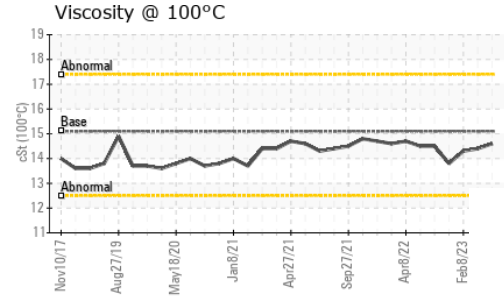
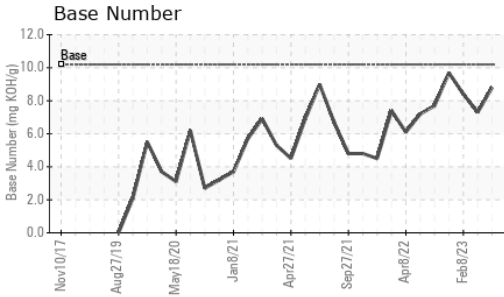
method	limit/base	current	history 1	history 2
Soot % *ASTM D7844		0.1	0	0.1
Nitration Abs/cm *ASTM D7624	>20	6.6	6.4	7.0
Sulfation Abs/.1mm *ASTM D7415	>30	19.7	17.1	19.1

FLUID DEGRADATION

method	limit/base	current	history 1	history 2
Oxidation Abs/.1mm *ASTM D7414	>25	16.2	14.9	15.7
Base Number (BN) mg KOH/g ASTM D2896	10.2	8.8	7.3	8.4



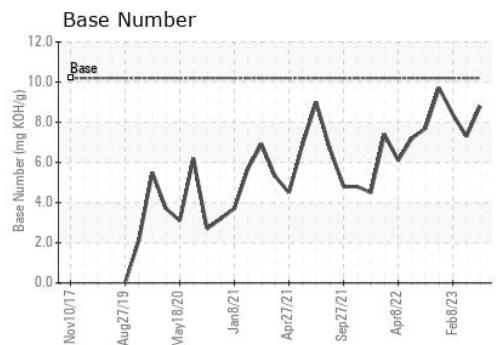
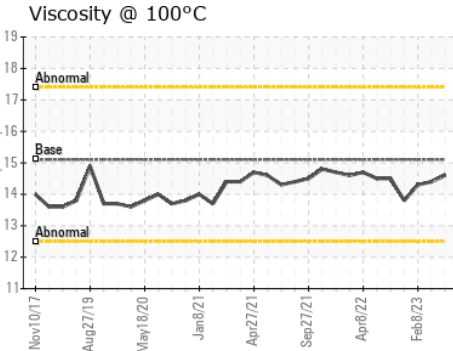
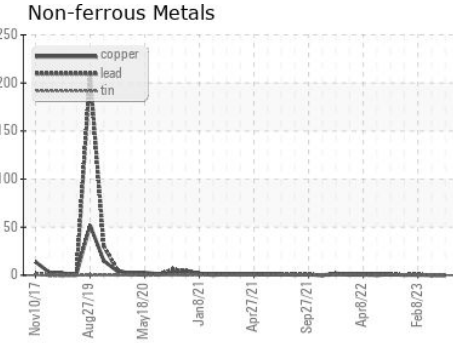
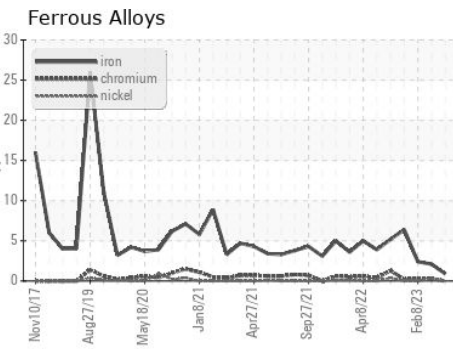
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history 1	history 2
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	history 1	history 2	
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	14.4	14.3

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0083301 **Received** : 30 Jun 2023
Lab Number : 05887640 **Diagnosed** : 02 Jul 2023
Unique Number : 10538123 **Diagnostician** : Wes Davis
Test Package : FLEET

GFL Environmental - 017 - Durham
 148 Stone Park Court
 Durham, NC
 US 27703
 Contact: Shane Parks
 shane.parks@gflenv.com
 T: (919)596-1363
 F: (919)598-1852

Certificate L2367
 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)