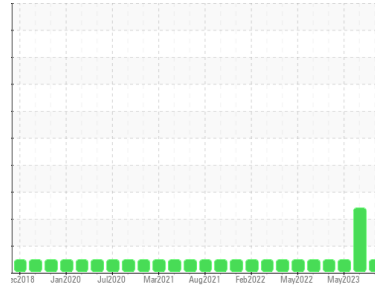




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
10911C

Component
Natural Gas Engine

Fluid
PETRO CANADA DURON GEO LD 15W40 (11 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	history1	history2
Sample Number	Client Info	GFL0092331	GFL0084244	GFL0069715
Sample Date	Client Info	11 Sep 2023	15 Jun 2023	19 May 2023
Machine Age	hrs Client Info	0	10825	10629
Oil Age	hrs Client Info	0	10629	10629
Oil Changed	Client Info	N/A	Changed	Changed
Sample Status		NORMAL	ABNORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>50	6	16	13
Chromium ppm ASTM D5185m	>4	<1	1	<1
Nickel ppm ASTM D5185m	>2	0	<1	<1
Titanium ppm ASTM D5185m		0	0	<1
Silver ppm ASTM D5185m	>3	0	0	0
Aluminum ppm ASTM D5185m	>9	2	2	0
Lead ppm ASTM D5185m	>30	0	1	<1
Copper ppm ASTM D5185m	>35	0	2	2
Tin ppm ASTM D5185m	>4	0	<1	<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	6	2	4
Barium ppm ASTM D5185m	5	0	0	0
Molybdenum ppm ASTM D5185m	50	61	70	63
Manganese ppm ASTM D5185m	0	<1	<1	<1
Magnesium ppm ASTM D5185m	560	929	655	649
Calcium ppm ASTM D5185m	1510	1161	1765	1754
Phosphorus ppm ASTM D5185m	780	1015	810	773
Zinc ppm ASTM D5185m	870	1253	1103	1097
Sulfur ppm ASTM D5185m	2040	3585	3047	2981

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>+100	10	4	5
Sodium ppm ASTM D5185m		5	▲ 42	38
Potassium ppm ASTM D5185m	>20	2	▲ 41	36

INFRA-RED

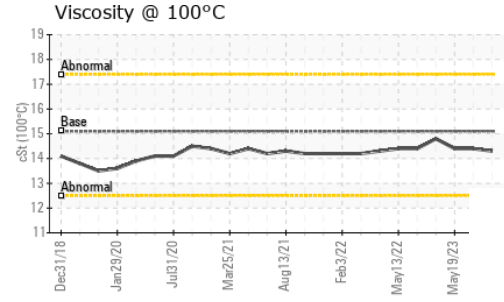
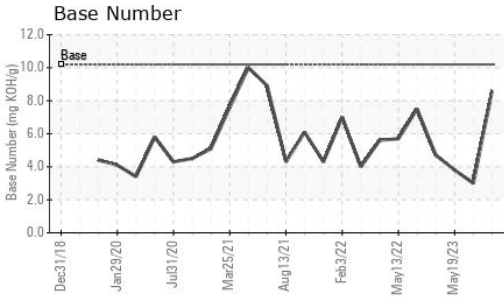
method	limit/base	current	history1	history2
Soot % *ASTM D7844		0.1	0.1	0
Nitration Abs/cm *ASTM D7624	>20	6.7	11.8	12.0
Sulfation Abs/.1mm *ASTM D7415	>30	18.3	27.5	25.0

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation Abs/.1mm *ASTM D7414	>25	14.0	22.4	19.5
Base Number (BN) mg KOH/g ASTM D2896	10.2	8.6	3.0	3.8



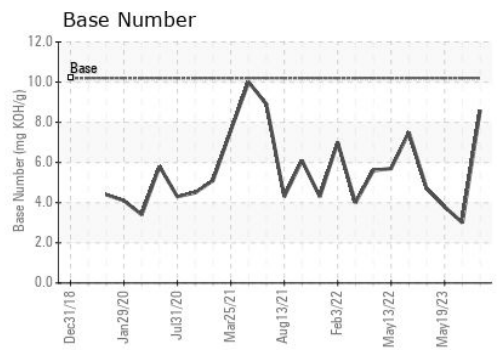
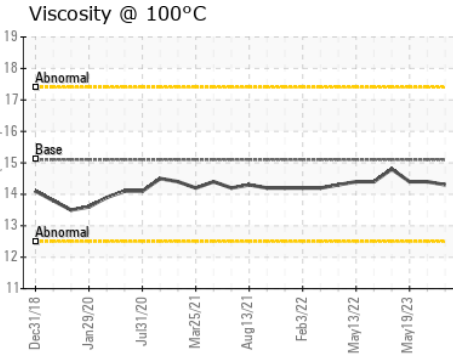
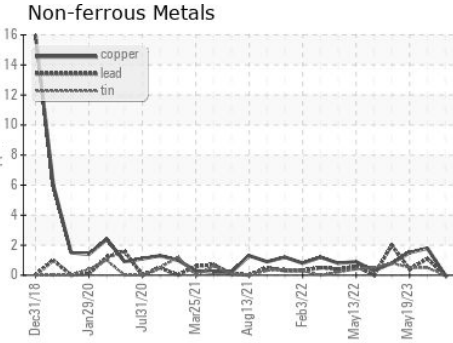
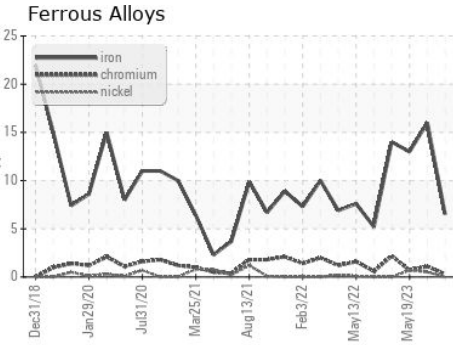
OIL ANALYSIS REPORT



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	14.3	14.4	14.4

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0092331 **Received** : 12 Sep 2023
Lab Number : **05947721** **Diagnosed** : 14 Sep 2023
Unique Number : 10643680 **Diagnostician** : Jonathan Hester
Test Package : FLEET

GFL Environmental - 031 - Greenville/Spartanburg
 1635 Antioch Church Rd
 Piedmont, SC
 US 29673
 Contact: TECHNICIAN ACCOUNT
 catherine.anastasio@wearcheck.com
 T:
 F:

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)