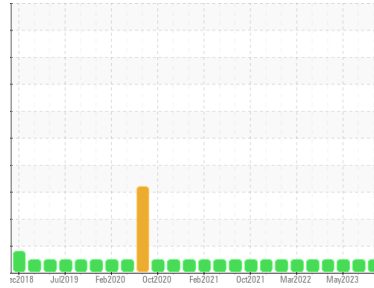




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(P658099)

Machine Id
3819C

Component
Natural Gas Engine

Fluid
PETRO CANADA 10W40 (8 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	GFL0096944	GFL0096985	GFL0084247
Sample Date	Client Info	29 Jan 2024	05 Dec 2023	19 May 2023
Machine Age	hrs	13116	12733	11844
Oil Age	hrs	13116	0	11844
Oil Changed	Client Info	Not Chngd	Not Chngd	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	<1	14	9
Chromium	ppm	ASTM D5185m	0	<1	1
Nickel	ppm	ASTM D5185m	0	0	<1
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m	1	2	<1
Lead	ppm	ASTM D5185m	<1	<1	8
Copper	ppm	ASTM D5185m	0	<1	1
Tin	ppm	ASTM D5185m	<1	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	41	7	8
Barium	ppm	ASTM D5185m	<1	0	0
Molybdenum	ppm	ASTM D5185m	47	62	56
Manganese	ppm	ASTM D5185m	<1	0	<1
Magnesium	ppm	ASTM D5185m	550	612	648
Calcium	ppm	ASTM D5185m	1307	1493	1759
Phosphorus	ppm	ASTM D5185m	758	730	822
Zinc	ppm	ASTM D5185m	868	1016	1096
Sulfur	ppm	ASTM D5185m	2253	2575	2913

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	5	6	7
Sodium	ppm	ASTM D5185m	3	12	9
Potassium	ppm	ASTM D5185m	0	2	2

INFRA-RED

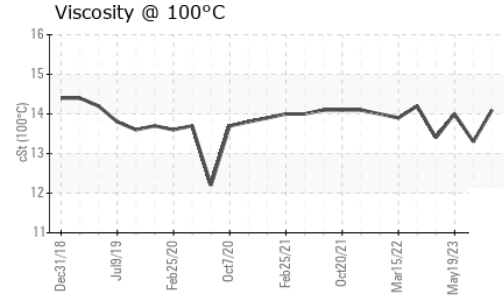
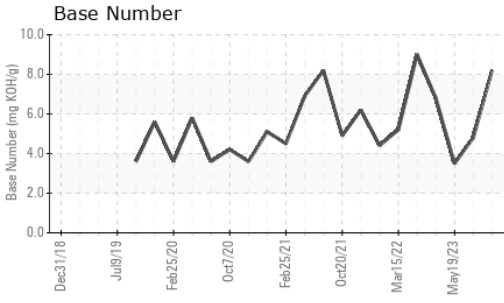
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	6.2	11.7	11.9
Sulfation	Abs/.1mm	*ASTM D7415	19.0	23.0	27.1

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	15.0	18.5	23.0
Base Number (BN)	mg KOH/g	ASTM D2896	8.2	4.8	3.5



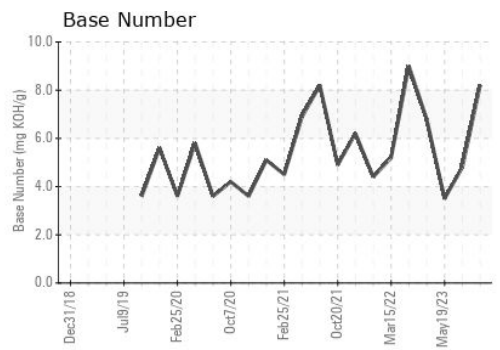
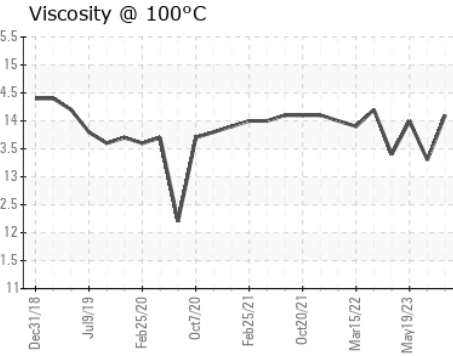
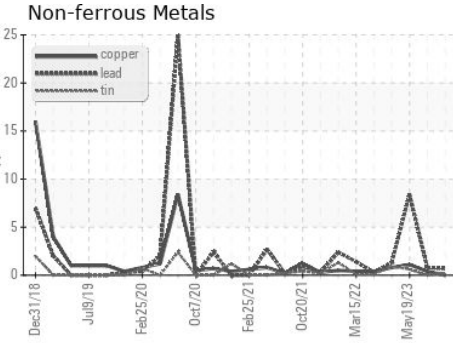
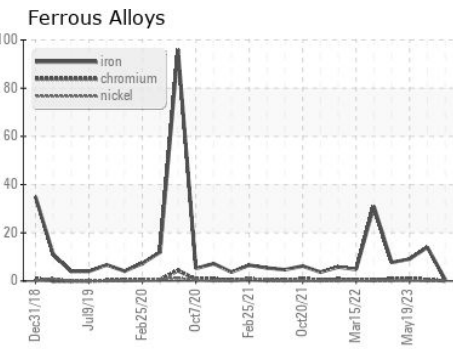
OIL ANALYSIS REPORT



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	NEG	NEG	NEG
Free Water	scalar	*Visual	NEG	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.1	13.3	14.0

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0096944 **Received** : 01 Feb 2024
Lab Number : 06076590 **Diagnosed** : 01 Feb 2024
Unique Number : 10858681 **Diagnostician** : Wes Davis
Test Package : FLEET

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

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)

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F: