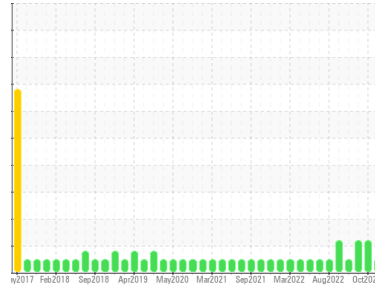




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
3745C AUTOCAR ACX

Component
Natural Gas Engine

Fluid
PETRO CANADA DURON SHP 15W40 (48 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		GFL0094747	GFL0094672	GFL0089353
Sample Date	Client Info		05 Feb 2024	25 Oct 2023	11 Aug 2023
Machine Age	hrs	Client Info	33362	32623	32117
Oil Age	hrs	Client Info	739	506	1112
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	ABNORMAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	37	40	29
Chromium	ppm	ASTM D5185m >4	8	8	6
Nickel	ppm	ASTM D5185m >2	<1	<1	<1
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >9	10	10	7
Lead	ppm	ASTM D5185m >30	9	12	4
Copper	ppm	ASTM D5185m >35	2	4	0
Tin	ppm	ASTM D5185m >4	<1	<1	0
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 0	11	3	0
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 60	57	58	51
Manganese	ppm	ASTM D5185m 0	1	2	0
Magnesium	ppm	ASTM D5185m 1010	626	606	594
Calcium	ppm	ASTM D5185m 1070	1624	1710	1685
Phosphorus	ppm	ASTM D5185m 1150	817	762	721
Zinc	ppm	ASTM D5185m 1270	1045	1061	1017
Sulfur	ppm	ASTM D5185m 2060	2363	2367	3084

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+100	7	9	5
Sodium	ppm	ASTM D5185m	31	12	5
Potassium	ppm	ASTM D5185m >20	32	3	0

INFRA-RED

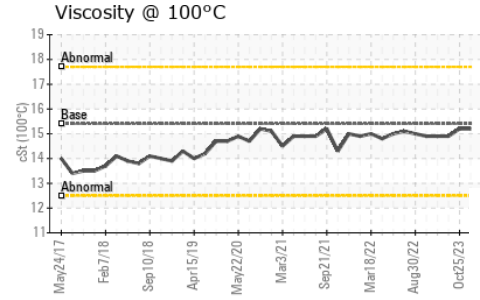
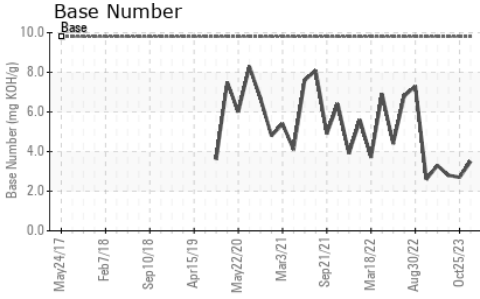
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	0	0	0
Nitration	Abs/cm	*ASTM D7624 >20	12.2	12.0	11.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	26.7	26.5	24.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	22.2	22.8	20.6
Base Number (BN)	mg KOH/g	ASTM D2896 9.8	3.5	▲ 2.7	▲ 2.8



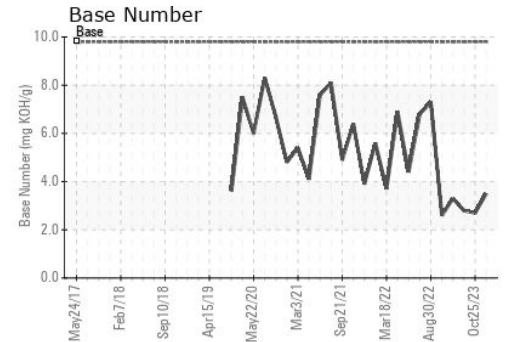
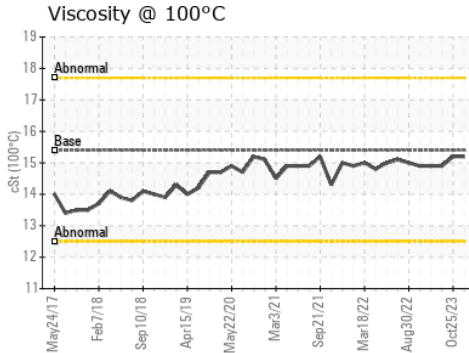
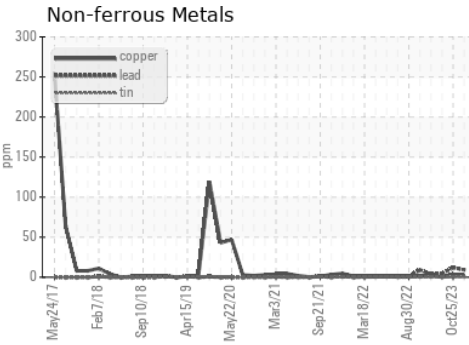
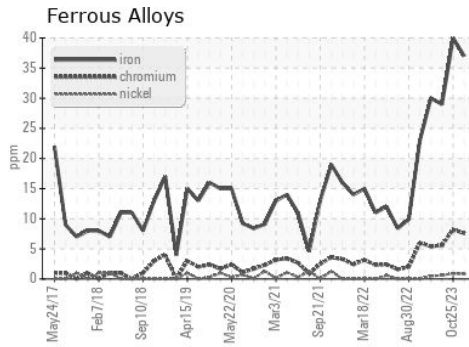
OIL ANALYSIS REPORT



PARAMETER	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	15.4	15.2	14.9

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0094747
 Lab Number : 06082293
 Unique Number : 10869738
 Test Package : FLEET

Received : 07 Feb 2024
 Tested : 08 Feb 2024
 Diagnosed : 09 Feb 2024 - Jonathan Hester

GFL Environmental - 001 - Raleigh(CNG)
 3741 Conquest Drive
 Garner, NC
 US 27529

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)

Contact: Craig Johnson
craig.johnson@gflenv.com

T: (919)662-7100
F: (919)662-7130