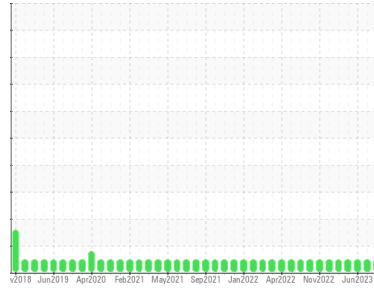




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
3820

Component
Diesel Engine

Fluid
PETRO CANADA DURON UHP E6 10W40 (9 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		GFL0058930	GFL0058938	GFL0027697
Sample Date	Client Info		16 Dec 2023	18 Sep 2023	30 Jun 2023
Machine Age	hrs	Client Info	20800	20027	19364
Oil Age	hrs	Client Info	600	500	800
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >165	14	13	23
Chromium	ppm	ASTM D5185m >5	<1	<1	<1
Nickel	ppm	ASTM D5185m >4	0	<1	<1
Titanium	ppm	ASTM D5185m >2	0	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >20	2	2	4
Lead	ppm	ASTM D5185m >150	0	1	2
Copper	ppm	ASTM D5185m >90	0	<1	<1
Tin	ppm	ASTM D5185m >5	0	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 0	11	12	12
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	60	66	64
Manganese	ppm	ASTM D5185m 0	0	<1	<1
Magnesium	ppm	ASTM D5185m 80	862	858	807
Calcium	ppm	ASTM D5185m 2400	1032	1044	1133
Phosphorus	ppm	ASTM D5185m 750	1011	957	935
Zinc	ppm	ASTM D5185m 840	1168	1172	1134
Sulfur	ppm	ASTM D5185m 2130	2884	3064	3069

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >35	3	4	4
Sodium	ppm	ASTM D5185m	0	<1	0
Potassium	ppm	ASTM D5185m >20	1	<1	<1

INFRA-RED

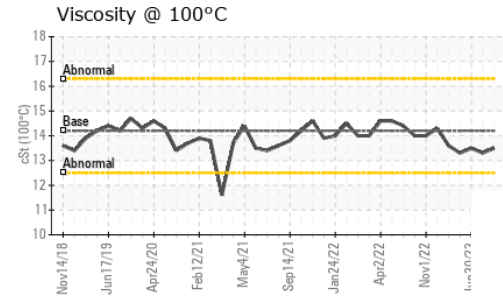
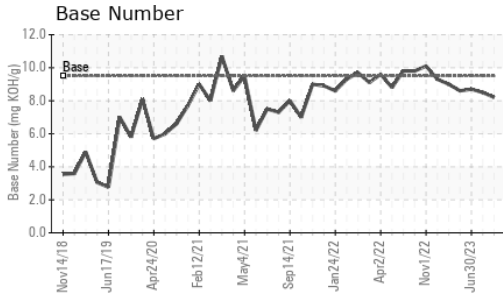
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >7.5	0.4	0.3	0.5
Nitration	Abs/cm	*ASTM D7624 >20	6.8	5.8	6.7
Sulfation	Abs/.1mm	*ASTM D7415 >30	19.0	17.8	18.4

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	14.7	13.0	13.9
Base Number (BN)	mg KOH/g	ASTM D2896 9.5	8.2	8.5	8.7



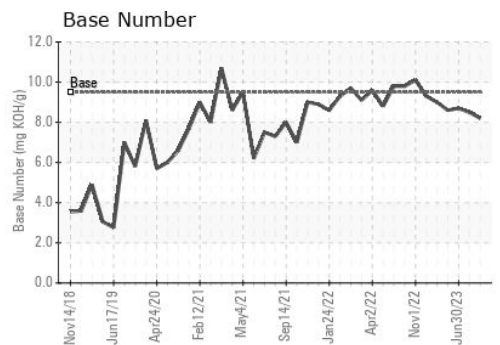
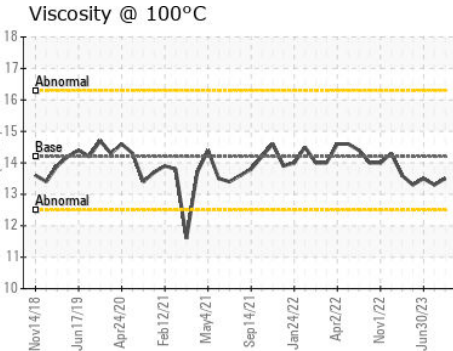
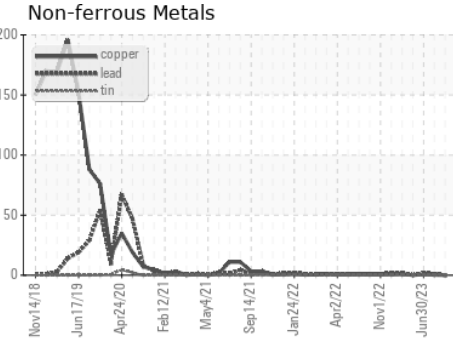
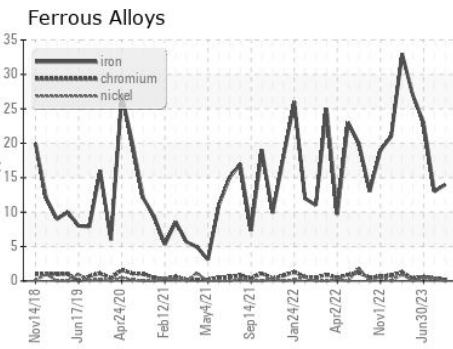
OIL ANALYSIS REPORT



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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.2	13.5	13.3

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : GFL0058930
 Lab Number : 06044433
 Unique Number : 10805041
 Test Package : FLEET

GFL Environmental - 467 - Arbor Hills LF
 10599 FIVE MILE RD
 NORTHVILLE, MI
 US 48168
 Contact: ANGELA RILEY
 angela.riley@gflenv.com
 T: (248)412-0697
 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)