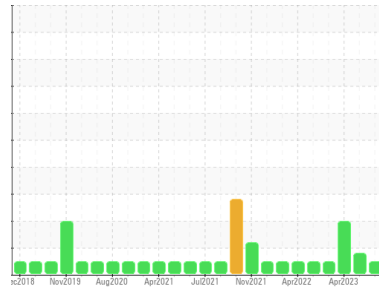




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
(YA144032)

Machine Id
3797C

Component
Natural Gas Engine

Fluid
PETRO CANADA DURON GEO LD 15W40 (46 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	GFL0116008	GFL0066847	GFL0074416
Sample Date	Client Info	18 Jun 2024	21 Jun 2023	07 Apr 2023
Machine Age	hrs	9734	9734	9734
Oil Age	hrs	0	9734	9734
Oil Changed	Client Info	Not Chngd	Changed	Changed
Sample Status		NORMAL	ABNORMAL	ATTENTION

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	8	32	28
Chromium	ppm ASTM D5185m >4	<1	1	0
Nickel	ppm ASTM D5185m >2	0	1	0
Titanium	ppm ASTM D5185m	0	3	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >9	2	4	8
Lead	ppm ASTM D5185m >30	0	3	16
Copper	ppm ASTM D5185m >35	0	▲ 183	14
Tin	ppm ASTM D5185m >4	<1	2	<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	18	5	40
Barium	ppm ASTM D5185m 5	0	0	0
Molybdenum	ppm ASTM D5185m 50	50	104	22
Manganese	ppm ASTM D5185m 0	<1	10	1
Magnesium	ppm ASTM D5185m 560	650	325	● 226
Calcium	ppm ASTM D5185m 1510	1568	1972	● 792
Phosphorus	ppm ASTM D5185m 780	827	756	● 448
Zinc	ppm ASTM D5185m 870	1005	972	● 405
Sulfur	ppm ASTM D5185m 2040	2905	2995	2315

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >+100	6	21	22
Sodium	ppm ASTM D5185m	6	1	25
Potassium	ppm ASTM D5185m >20	2	3	2

INFRA-RED

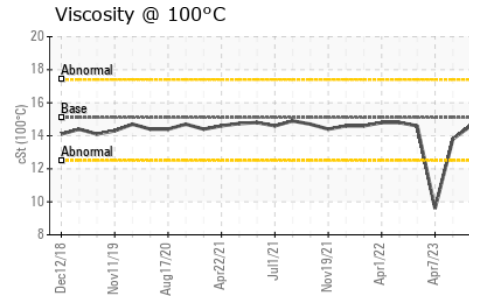
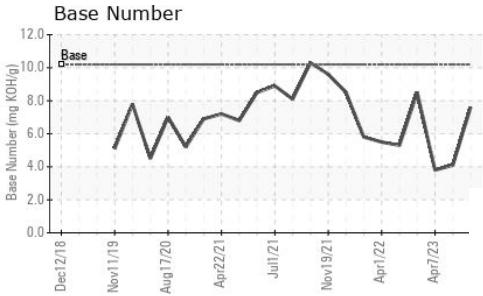
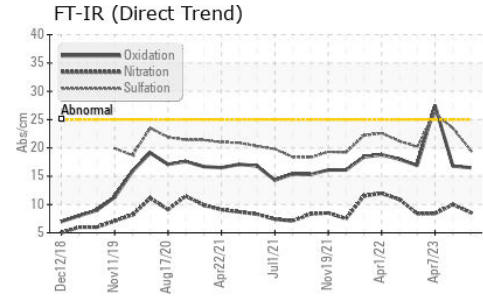
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	0.1	0	0.1
Nitration	Abs/cm *ASTM D7624 >20	8.6	10.0	8.4
Sulfation	Abs/.1mm *ASTM D7415 >30	19.6	23.5	26.1

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	16.5	16.8	27.5
Base Number (BN)	mg KOH/g ASTM D2896 10.2	7.6	4.1	3.8



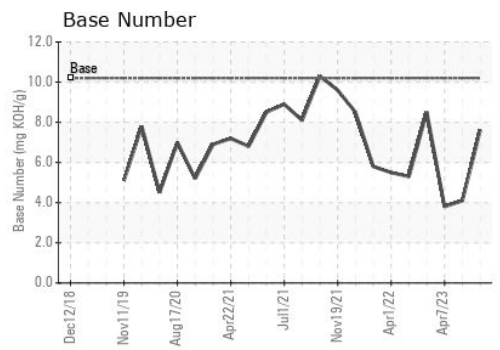
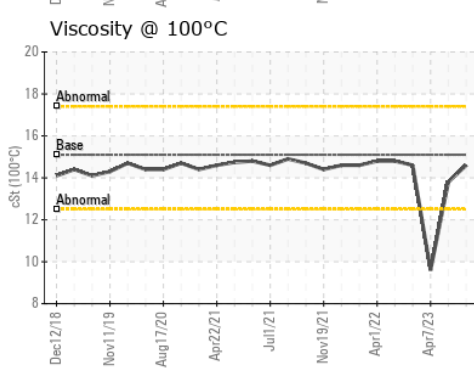
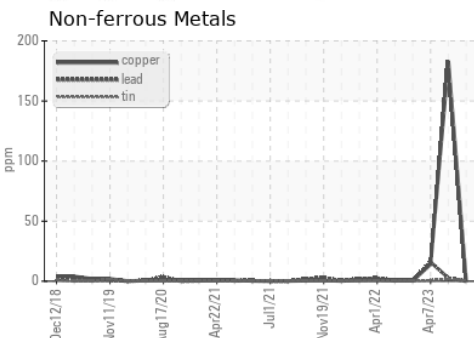
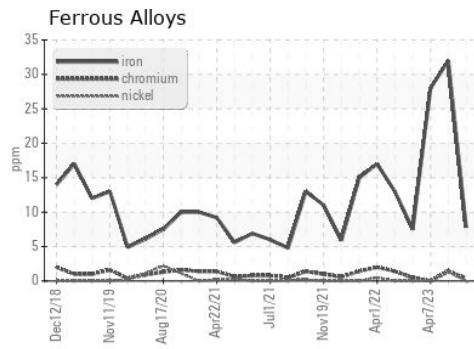
OIL ANALYSIS REPORT



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	14.6	13.8

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0116008
Lab Number : 06214472
Unique Number : 11087336
Test Package : FLEET
Received : 19 Jun 2024
Tested : 20 Jun 2024
Diagnosed : 20 Jun 2024 - Wes Davis

GFL Environmental - 018 - Fayetteville
 4621 Marracco Drive
 Hope Mills, NC
 US 28348

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)