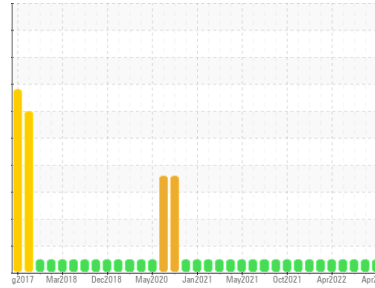




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
3761C
 Component
Natural Gas Engine
 Fluid

PETRO CANADA DURON GEO LD 15W40 (40 QTS)

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	GFL0070780	GFL0058581	GFL0051205
Sample Date	Client Info	07 Apr 2023	14 Oct 2022	12 Aug 2022
Machine Age	hrs	18578	15528	15041
Oil Age	hrs	600	15015	600
Oil Changed	Client Info	Changed	Changed	N/A
Sample Status		NORMAL	NORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	34	30	16
Chromium	ppm	ASTM D5185m >4	4	4	3
Nickel	ppm	ASTM D5185m >2	0	0	<1
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >9	4	4	5
Lead	ppm	ASTM D5185m >30	7	6	4
Copper	ppm	ASTM D5185m >35	<1	<1	8
Tin	ppm	ASTM D5185m >4	<1	<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	14	14	13
Barium	ppm	ASTM D5185m 5	0	2	0
Molybdenum	ppm	ASTM D5185m 50	65	69	56
Manganese	ppm	ASTM D5185m 0	1	1	<1
Magnesium	ppm	ASTM D5185m 560	690	648	536
Calcium	ppm	ASTM D5185m 1510	2061	2096	1675
Phosphorus	ppm	ASTM D5185m 780	913	936	762
Zinc	ppm	ASTM D5185m 870	1129	1208	1006
Sulfur	ppm	ASTM D5185m 2040	2444	3184	2455

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	8	8	6
Sodium	ppm	ASTM D5185m	14	11	9
Potassium	ppm	ASTM D5185m >20	0	2	2

INFRA-RED

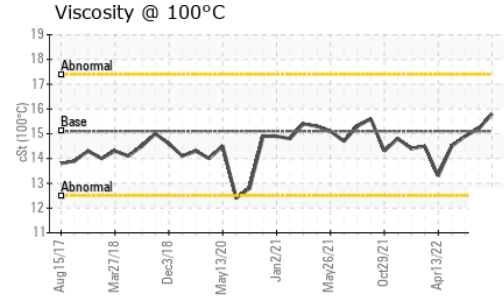
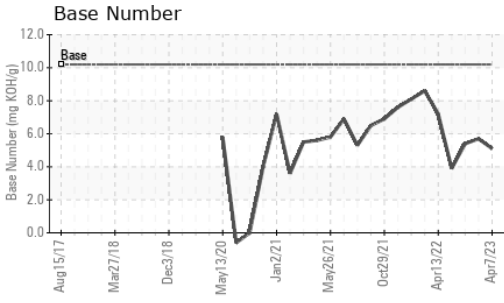
method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	0.1	0.1	0
Nitration	Abs/cm	*ASTM D7624 >20	13.5	13.0	11.5
Sulfation	Abs/.1mm	*ASTM D7415 >30	29.3	29.1	25.5

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	23.4	23.7	21.5
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	5.1	5.7	5.4



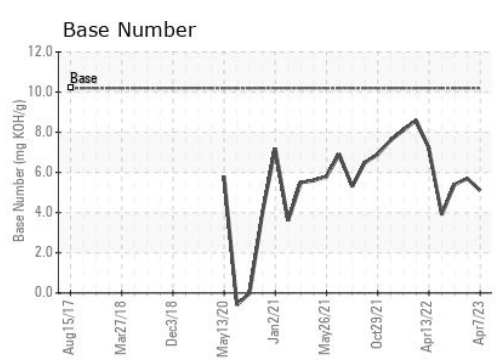
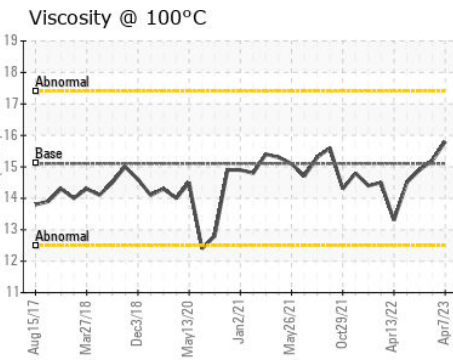
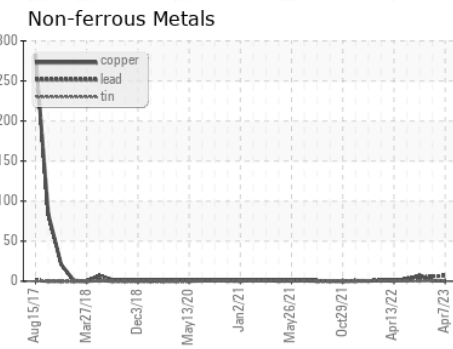
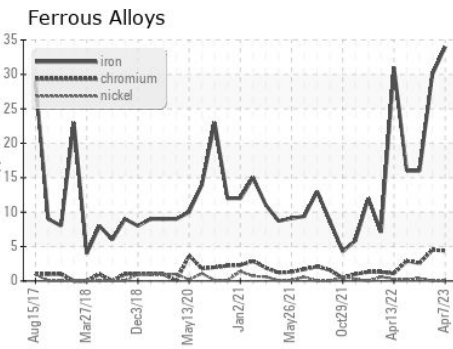
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
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	15.8	15.2	14.9

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0070780 **Received** : 10 Apr 2023
Lab Number : **05814896** **Diagnosed** : 12 Apr 2023
Unique Number : 10417688 **Diagnostician** : Don Baldrige
Test Package : FLEET

GFL Environmental - 030 - Conway Myrtle Beach
 3010 HWY 378
 Conway, SC
 US 29527
 Contact: CHET STROSCHINE
 cstroschine@gflenv.com
 T:
 F:

Certificate L2367
 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)