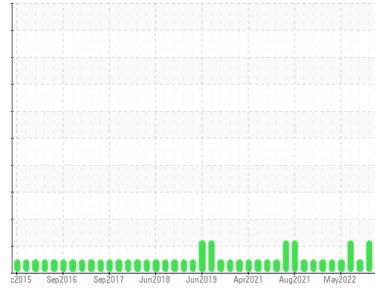


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id
2590C
 Component
2 Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (10 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	PCA0095855	PCA0077340	PCA0074741
Sample Date	Client Info	13 Nov 2023	19 Apr 2023	10 Oct 2022
Machine Age	hrs	21938	20833	19701
Oil Age	hrs	1105	1132	726
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	ABNORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	9	8	6
Chromium	ppm	ASTM D5185m >4	<1	<1	<1
Nickel	ppm	ASTM D5185m >2	<1	0	0
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >3	0	0	0
Aluminum	ppm	ASTM D5185m >9	3	2	1
Lead	ppm	ASTM D5185m >30	2	12	6
Copper	ppm	ASTM D5185m >35	<1	0	<1
Tin	ppm	ASTM D5185m >4	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 50	13	6	7
Barium	ppm	ASTM D5185m 5	6	0	2
Molybdenum	ppm	ASTM D5185m 50	48	39	39
Manganese	ppm	ASTM D5185m 0	<1	<1	<1
Magnesium	ppm	ASTM D5185m 560	494	420	375
Calcium	ppm	ASTM D5185m 1510	1418	1257	1168
Phosphorus	ppm	ASTM D5185m 780	730	546	522
Zinc	ppm	ASTM D5185m 870	885	731	711
Sulfur	ppm	ASTM D5185m 2040	2745	2315	3588

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+100	11	5	6
Sodium	ppm	ASTM D5185m	2	9	6
Potassium	ppm	ASTM D5185m >20	2	0	2

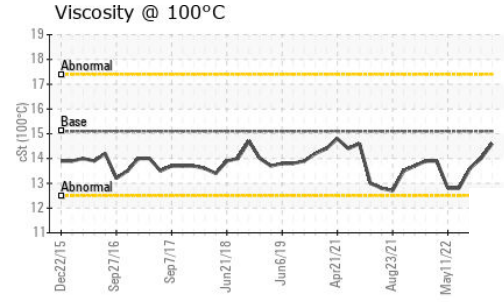
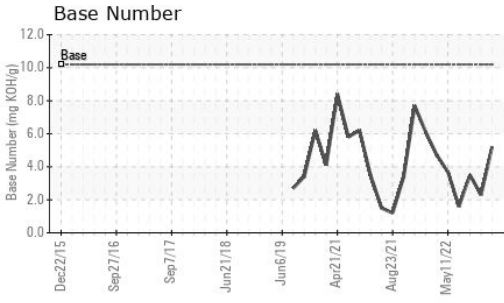
INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	0	0	0.1
Nitration	Abs/cm	*ASTM D7624 >20	10.1	11.0	9.9
Sulfation	Abs/.1mm	*ASTM D7415 >30	23.0	26.2	22.8

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414 >25	18.1	21.6	17.1
Base Number (BN)	mg KOH/g	ASTM D2896 10.2	5.2	▲ 2.3	3.5

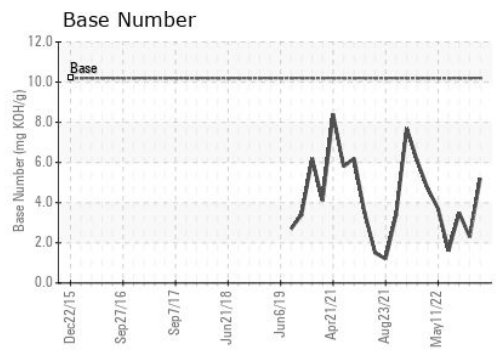
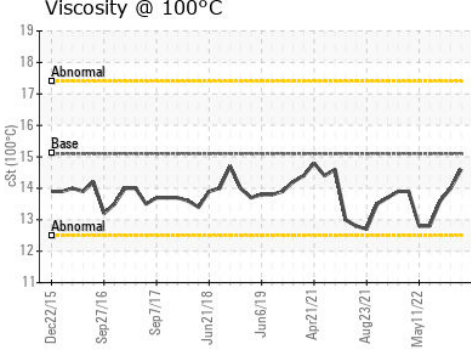
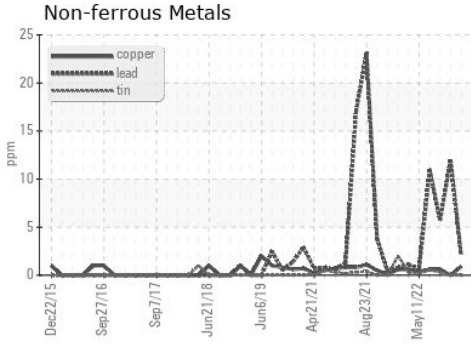
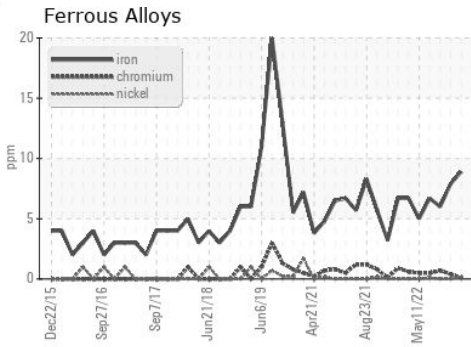
OIL ANALYSIS REPORT



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	>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	14.0	13.6

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0095855 **Received** : 15 Nov 2023
Lab Number : **06009008** **Diagnosed** : 16 Nov 2023
Unique Number : 10742770 **Diagnostician** : Wes Davis
Test Package : FLEET

GFL Environmental - 002 - Vance-Granville
 241 Vanco Mill Rd
 Henderson, NC
 US 27537
 Contact: Cameron King
 cameron.king@gflenv.com
 T: (252)438-5333
 F: (252)431-1635

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)