



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
833060
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	GFL0094379	---	---
Sample Date	Client Info	30 Nov 2023	---	---
Machine Age	hrs Client Info	989	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		NORMAL	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >50	37	---	---
Chromium	ppm ASTM D5185(m) >4	<1	---	---
Nickel	ppm ASTM D5185(m) >2	<1	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m) >3	<1	---	---
Aluminum	ppm ASTM D5185(m) >9	4	---	---
Lead	ppm ASTM D5185(m) >30	2	---	---
Copper	ppm ASTM D5185(m) >35	19	---	---
Tin	ppm ASTM D5185(m) >4	<1	---	---
Antimony	ppm ASTM D5185(m)	0	---	---
Vanadium	ppm ASTM D5185(m)	0	---	---
Beryllium	ppm ASTM D5185(m)	0	---	---
Cadmium	ppm ASTM D5185(m)	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 50	11	---	---
Barium	ppm ASTM D5185(m) 5	4	---	---
Molybdenum	ppm ASTM D5185(m) 50	105	---	---
Manganese	ppm ASTM D5185(m) 0	11	---	---
Magnesium	ppm ASTM D5185(m) 560	653	---	---
Calcium	ppm ASTM D5185(m) 1510	1237	---	---
Phosphorus	ppm ASTM D5185(m) 780	650	---	---
Zinc	ppm ASTM D5185(m) 870	791	---	---
Sulfur	ppm ASTM D5185(m) 2040	2232	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >+100	31	---	---
Sodium	ppm ASTM D5185(m)	3	---	---
Potassium	ppm ASTM D5185(m) >20	1	---	---

INFRA-RED

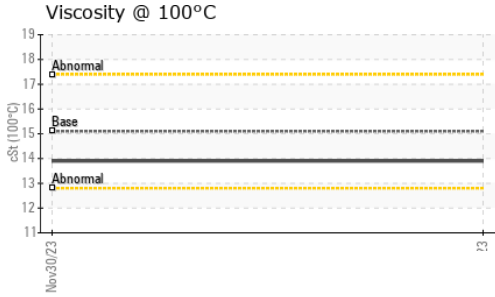
method	limit/base	current	history1	history2
Soot %	% ASTM D7844*	0	---	---
Nitration	Abs/cm ASTM D7624*	9.4	---	---
Sulfation	Abs./1mm ASTM D7415*	22.3	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs./1mm ASTM D7414*	17.2	---	---



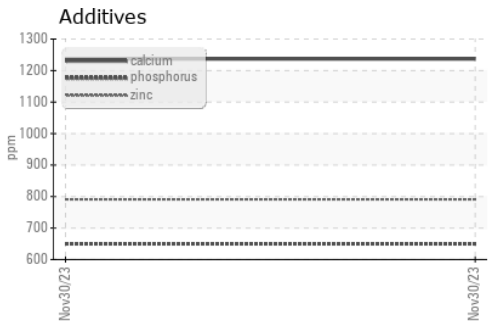
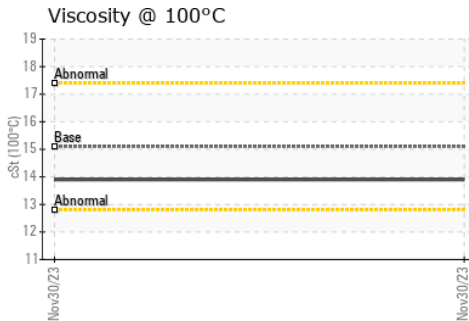
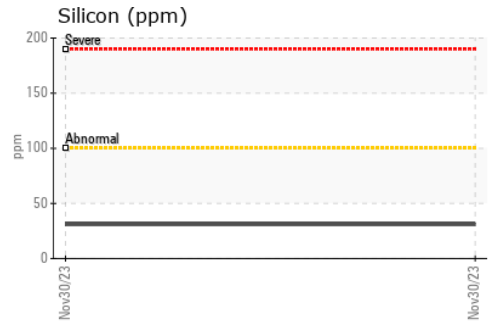
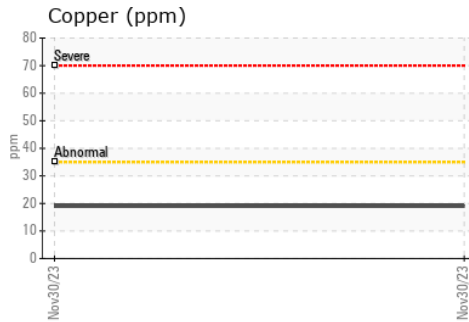
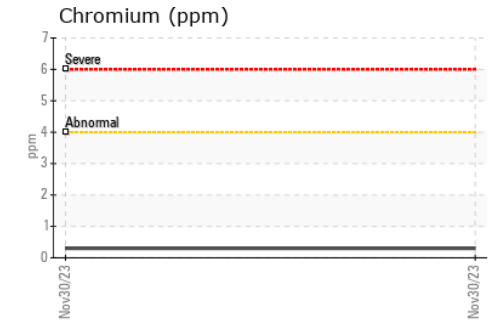
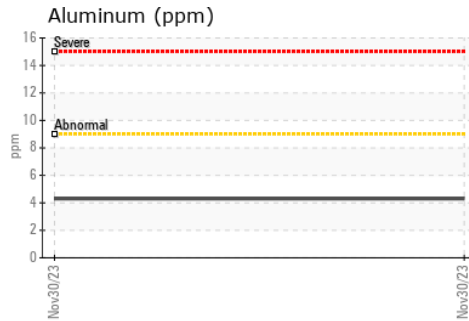
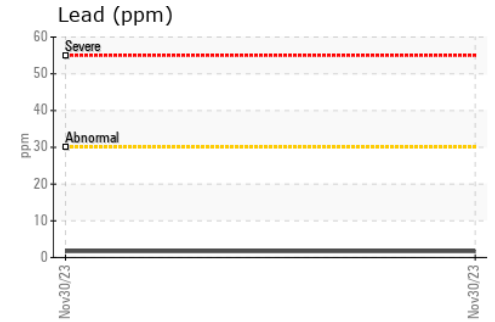
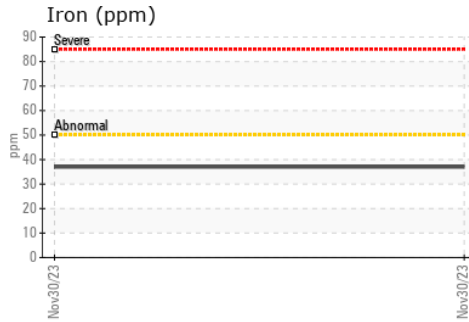
OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.1	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.1	13.9	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
 Sample No. : GFL0094379
 Lab Number : 02600026
 Unique Number : 5685106
 Test Package : MOB 1

GFL Environmental - 222 - Sandhill
 SANDHILL DISPOSAL & RECYCLING DIVIS, 19 COMMERCE ROAD
 ORANGEVILLE, ON
 CA L9W 3X5
 Contact: GLENN COOK
 gcook@gflenv.com
 T: (519)940-4167
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.