



OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

433006

Component

Diesel Engine

Fluid

PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Wear

Metal levels are typical for a components first oil change.

Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.

Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. 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		GFL0117290	---	---
Sample Date	Client Info		18 Apr 2024	---	---
Machine Age	hrs	Client Info	1494	---	---
Oil Age	hrs	Client Info	1494	---	---
Oil Changed	Client Info		Changed	---	---
Sample Status			NORMAL	---	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	---	---
Water	WC Method	>0.2	NEG	---	---
Glycol	WC Method		NEG	---	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >100	72	---	---
Chromium	ppm	ASTM D5185(m) >20	<1	---	---
Nickel	ppm	ASTM D5185(m) >4	<1	---	---
Titanium	ppm	ASTM D5185(m)	<1	---	---
Silver	ppm	ASTM D5185(m) >3	0	---	---
Aluminum	ppm	ASTM D5185(m) >20	5	---	---
Lead	ppm	ASTM D5185(m) >40	10	---	---
Copper	ppm	ASTM D5185(m) >330	12	---	---
Tin	ppm	ASTM D5185(m) >15	2	---	---
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) 1	10	---	---
Barium	ppm	ASTM D5185(m) 1	5	---	---
Molybdenum	ppm	ASTM D5185(m) 60	104	---	---
Manganese	ppm	ASTM D5185(m) 1	5	---	---
Magnesium	ppm	ASTM D5185(m) 1010	696	---	---
Calcium	ppm	ASTM D5185(m) 1070	1401	---	---
Phosphorus	ppm	ASTM D5185(m) 1150	688	---	---
Zinc	ppm	ASTM D5185(m) 1270	851	---	---
Sulfur	ppm	ASTM D5185(m) 2060	2125	---	---
Lithium	ppm	ASTM D5185(m)	<1	---	---

CONTAMINANTS

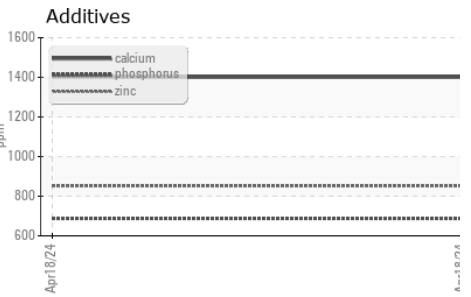
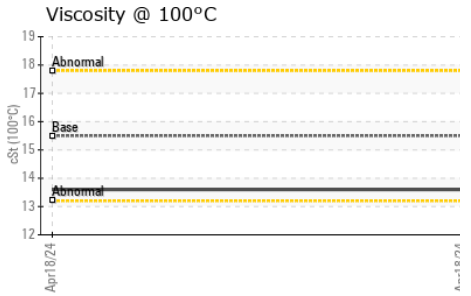
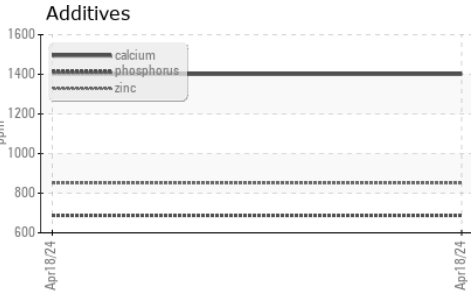
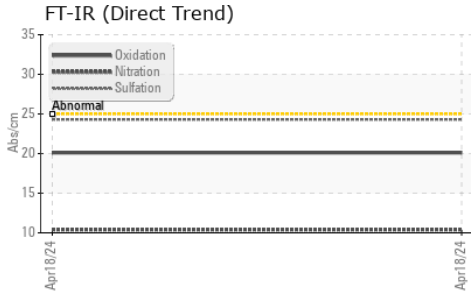
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m) >25	77	---	---
Sodium	ppm	ASTM D5185(m)	4	---	---
Potassium	ppm	ASTM D5185(m) >20	6	---	---

INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	ASTM D7844* >3	0	---	---
Nitration	Abs/cm	ASTM D7624* >20	10.4	---	---
Sulfation	Abs/.1mm	ASTM D7415* >30	24.3	---	---



OIL ANALYSIS REPORT

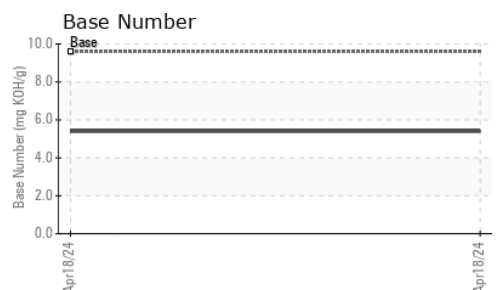
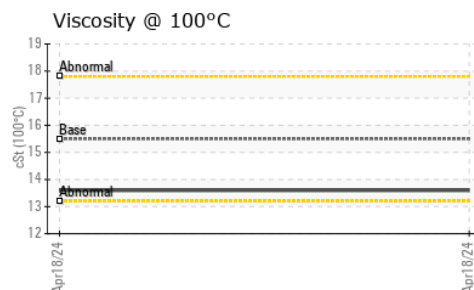
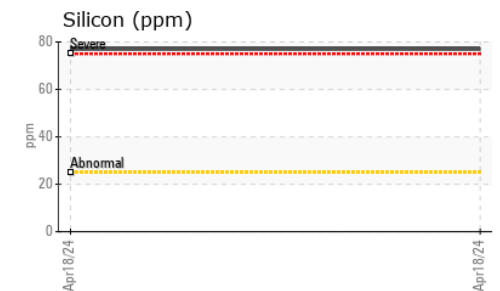
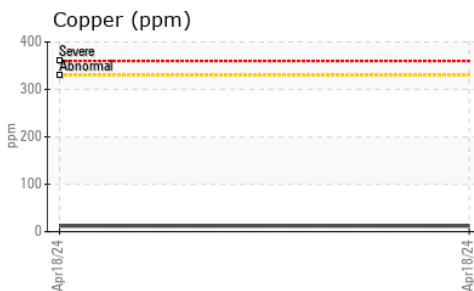
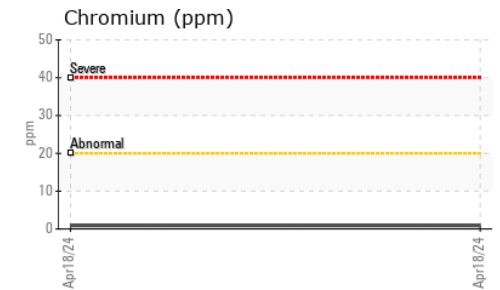
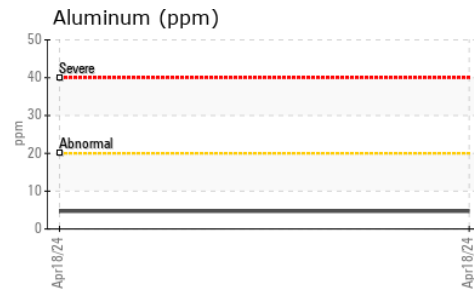
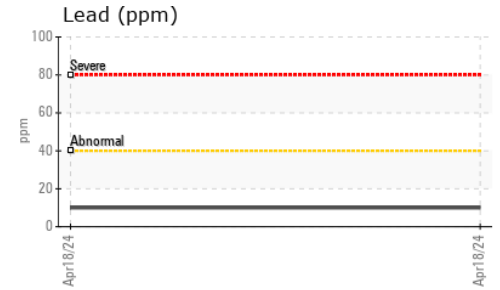
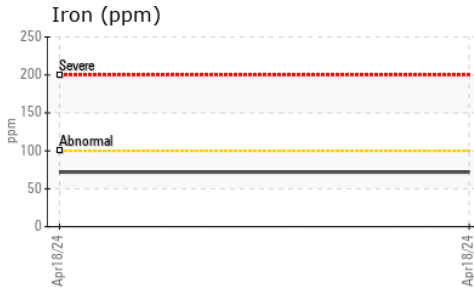


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.1	---	---
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	5.40	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	13.6	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **GFL Environmental - 550 - Rocky View County**
Sample No. : GFL0117290 **Received** : 23 Apr 2024 **220 Carmek Blvd**
Lab Number : **02630889** **Tested** : 23 Apr 2024 **Rocky View County, AB**
Unique Number : 5772042 **Diagnosed** : 24 Apr 2024 - Kevin Marson **CA T1X 1X1**
Test Package : MOB 2 **Contact:** GFL Calgary **calgarymaintenance@gflenv.com**

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.

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