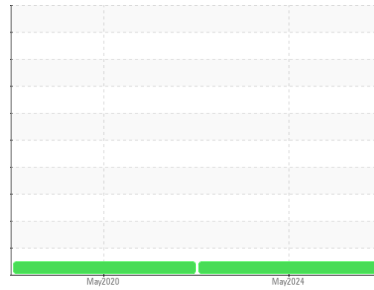




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

101025

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 10W30 (40 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 condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		GFL0107926	GFL0006023	---
Sample Date	Client Info		07 May 2024	19 May 2020	---
Machine Age	kms	Client Info	148126	10700	---
Oil Age	kms	Client Info	0	600	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	NORMAL	---

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>5	<1.0	0.3	---
Water	WC Method	>0.2	NEG	NEG	---
Glycol	WC Method		NEG	0.0	---

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>100	9	15	---
Chromium	ppm	ASTM D5185(m)	>20	<1	1	---
Nickel	ppm	ASTM D5185(m)	>4	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	<1	---
Silver	ppm	ASTM D5185(m)	>3	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>20	2	7	---
Lead	ppm	ASTM D5185(m)	>40	<1	0	---
Copper	ppm	ASTM D5185(m)	>330	3	4	---
Tin	ppm	ASTM D5185(m)	>15	0	0	---
Antimony	ppm	ASTM D5185(m)		0	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
Beryllium	ppm	ASTM D5185(m)		0	0	---
Cadmium	ppm	ASTM D5185(m)		0	0	---

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	2	8	2	---
Barium	ppm	ASTM D5185(m)	0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	50	47	61	---
Manganese	ppm	ASTM D5185(m)	0	0	<1	---
Magnesium	ppm	ASTM D5185(m)	950	782	1008	---
Calcium	ppm	ASTM D5185(m)	1050	1054	1067	---
Phosphorus	ppm	ASTM D5185(m)	995	838	1052	---
Zinc	ppm	ASTM D5185(m)	1180	1065	1270	---
Sulfur	ppm	ASTM D5185(m)	2600	2083	2571	---
Lithium	ppm	ASTM D5185(m)		<1	<1	---

CONTAMINANTS

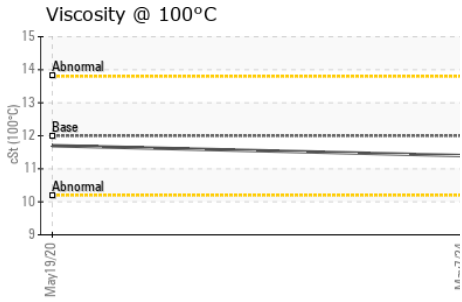
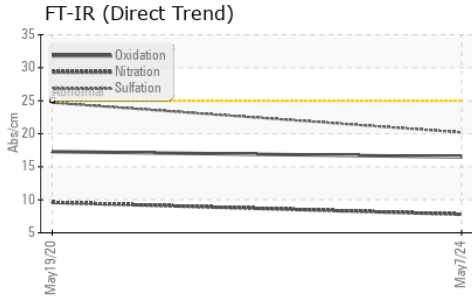
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	2	2	---
Sodium	ppm	ASTM D5185(m)		2	2	---
Potassium	ppm	ASTM D5185(m)	>20	3	12	---

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>3	0.4	0.4	---
Nitration	Abs/cm	ASTM D7624*	>20	7.8	9.6	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.2	24.7	---



OIL ANALYSIS REPORT



FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	16.5	17.3

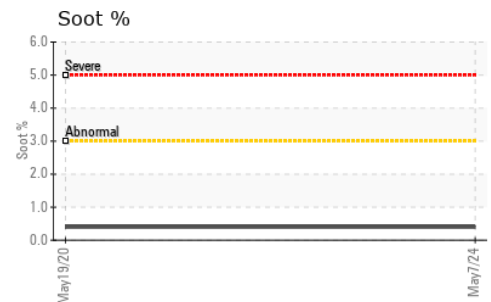
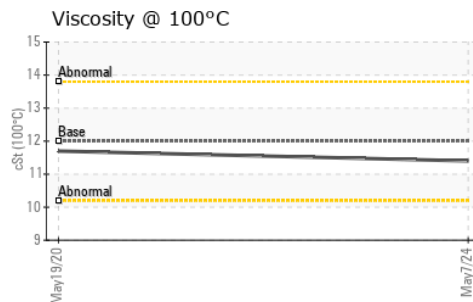
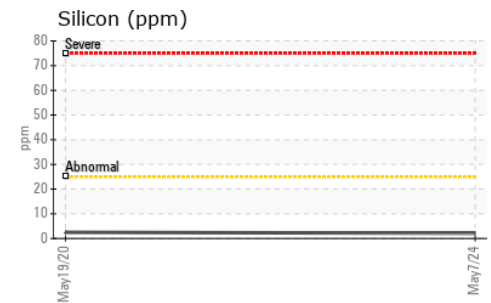
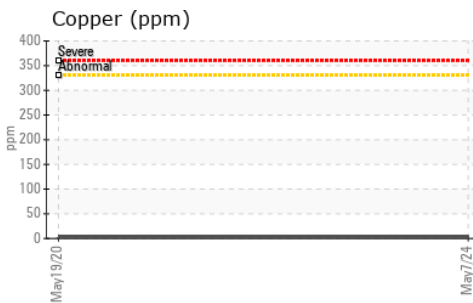
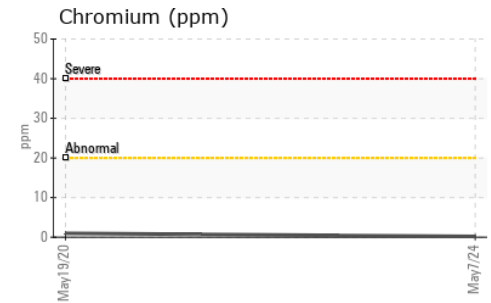
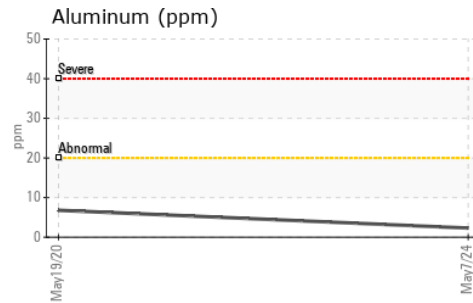
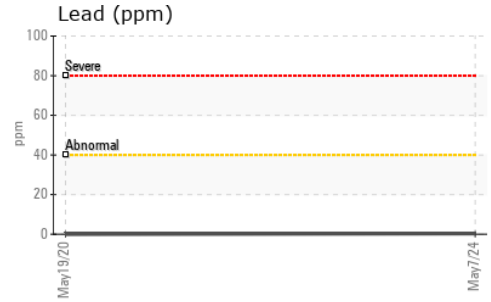
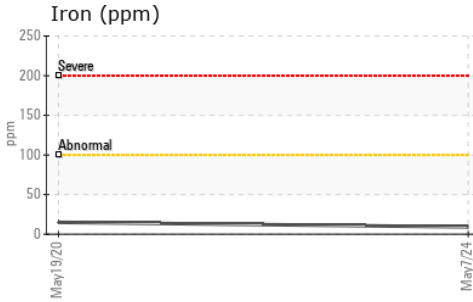
VISUAL

	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)	12.00	11.4	11.7

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0107926
Lab Number : 02634503
Unique Number : 5775656
Test Package : MOB 1

GFL Environmental - 350 - Emeral Park Regina
 2B Industrial Drive., Great Plains Industrial Park,
 Emerald Park, SK
 CA S4L 1B6
 Contact: Kim Cunningham
 kcunningham@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.