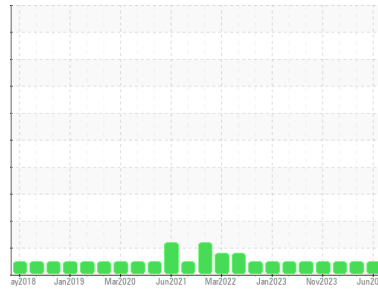




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

8424

Component

Diesel Engine

Fluid

PETRO CANADA DURON SHP 15W40 (20 LTR)

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		GFL0116852	GFL0110715	GFL0097451
Sample Date	Client Info		10 Jun 2024	20 Mar 2024	26 Dec 2023
Machine Age	hrs	Client Info	6371	6371	6371
Oil Age	hrs	Client Info	6371	6371	6371
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	NORMAL	NORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>3.0	<1.0	<1.0	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185(m)	>90	20	19	9
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	2	2
Lead	ppm	ASTM D5185(m)	>40	0	0	0
Copper	ppm	ASTM D5185(m)	>330	1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185(m)	0	3	0	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	56	56	55
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	902	916	887
Calcium	ppm	ASTM D5185(m)	1070	987	995	975
Phosphorus	ppm	ASTM D5185(m)	1150	907	904	941
Zinc	ppm	ASTM D5185(m)	1270	1105	1124	1096
Sulfur	ppm	ASTM D5185(m)	2060	2245	2255	2488
Lithium	ppm	ASTM D5185(m)		<1	<1	<1

CONTAMINANTS

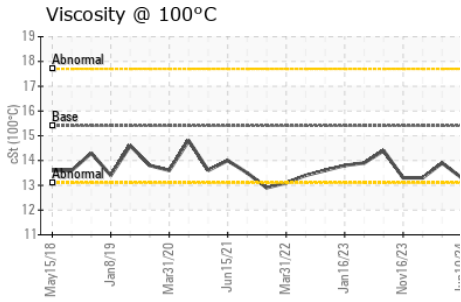
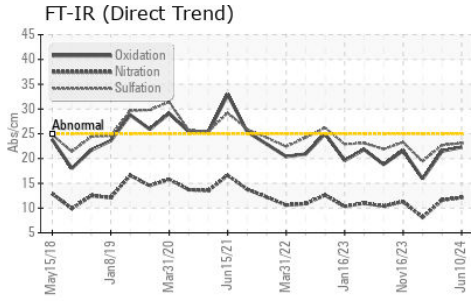
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185(m)	>25	7	5	10
Sodium	ppm	ASTM D5185(m)		3	2	1
Potassium	ppm	ASTM D5185(m)	>20	0	<1	2

INFRA-RED

	method	limit/base	current	history1	history2	
Soot %	%	ASTM D7844*	>6	0.4	0.4	0.1
Nitration	Abs/cm	ASTM D7624*	>20	12.1	11.6	8.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.1	22.7	19.4



OIL ANALYSIS REPORT



FLUID DEGRADATION

Method	Limit/Base	Current	History 1	History 2
Abs./1mm	ASTM D7414*	>25	21.5	15.9

VISUAL

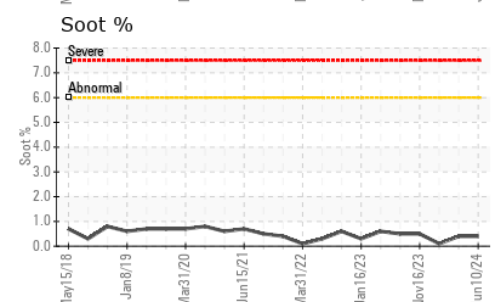
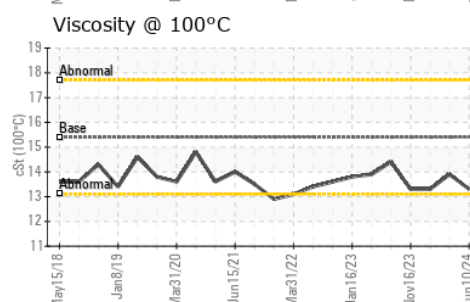
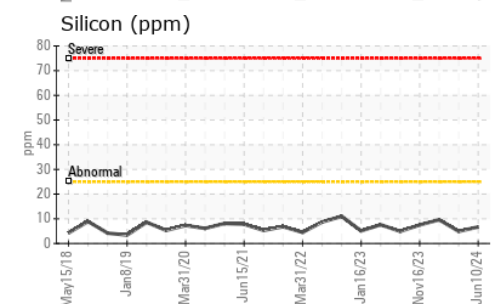
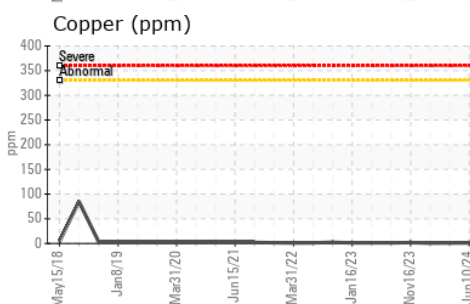
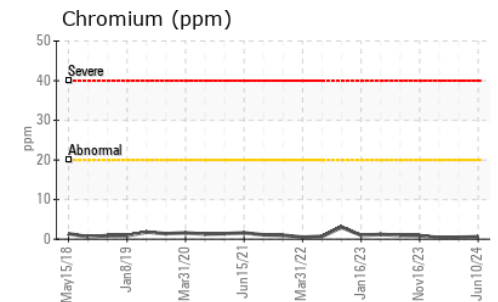
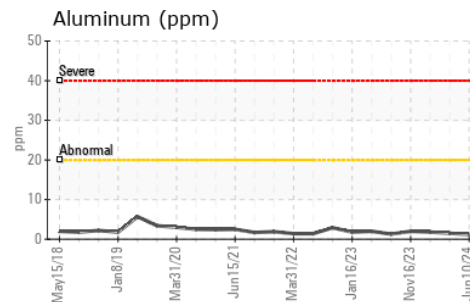
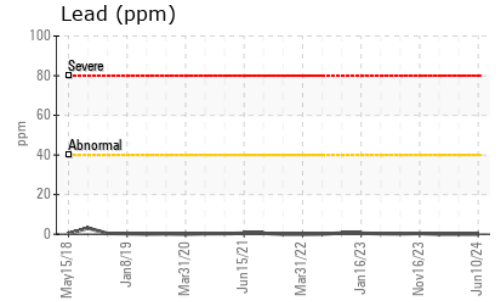
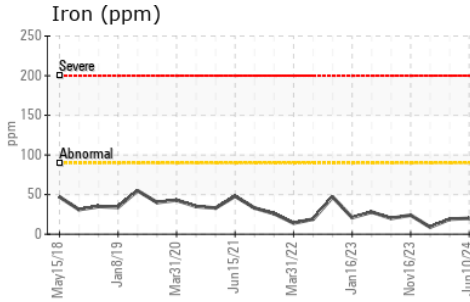
Method	Limit/Base	Current	History 1	History 2
Emulsified Water	Visual*	>0.2	NEG	NEG

Method	Limit/Base	Current	History 1	History 2
Free Water	Visual*	NEG	NEG	NEG

FLUID PROPERTIES

Method	Limit/Base	Current	History 1	History 2
Visc @ 100°C	ASTM D7279(m)	15.4	13.9	13.3

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0116852
Lab Number : 02641361
Unique Number : 5798900
Test Package : MOB 1

GFL Environmental - 221 - Windsor
 905 Tecumseh Road W
 Windsor, ON
 CA N8W 4J5
 Contact: Pamela-Jean Butler
 pamelajeau.butler@gflenv.com
 T: (519)948-8126
 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.