



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
FREIGHTLINER 811012
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112669	GFL0056312	GFL0056343
Sample Date		Client Info		06 May 2024	05 Jun 2023	18 Apr 2023
Machine Age	kms	Client Info		246211	158894	149770
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>75	38	16	17
Chromium	ppm	ASTM D5185(m)	>5	2	1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
Silver	ppm	ASTM D5185(m)	>2	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>15	6	3	3
Lead	ppm	ASTM D5185(m)	>25	0	0	<1
Copper	ppm	ASTM D5185(m)	>100	2	2	1
Tin	ppm	ASTM D5185(m)	>4	<1	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

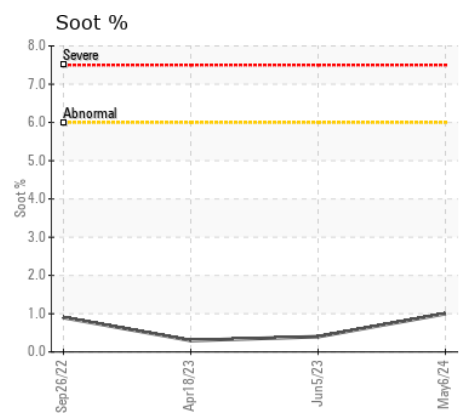
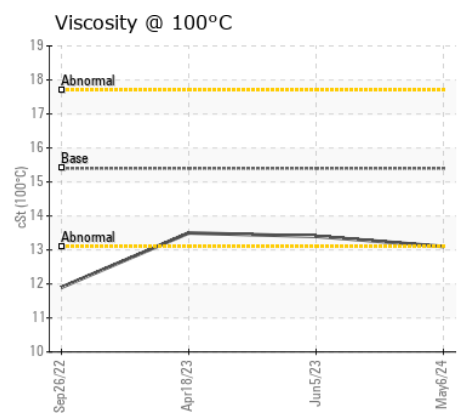
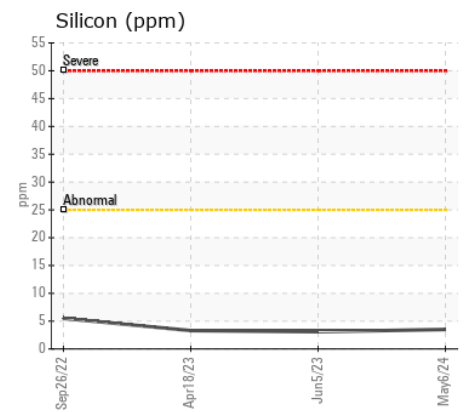
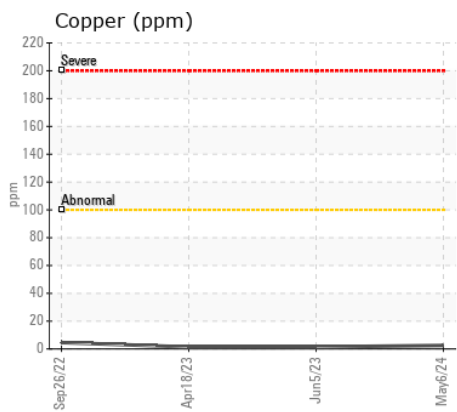
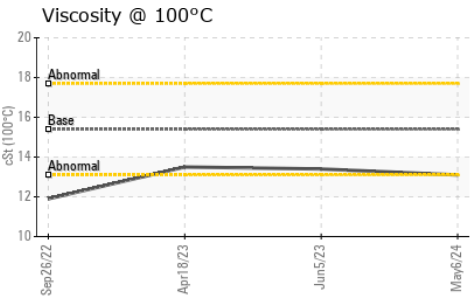
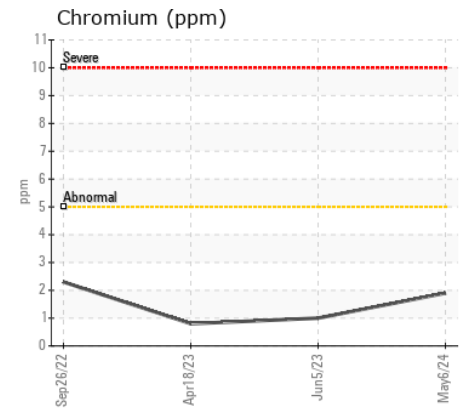
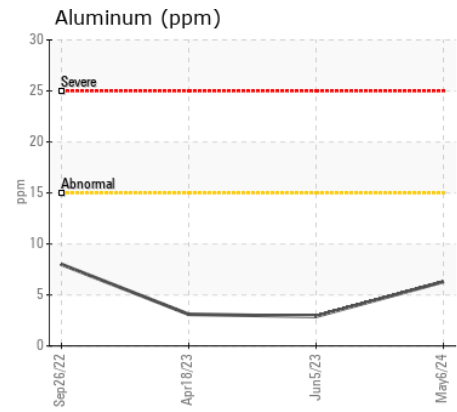
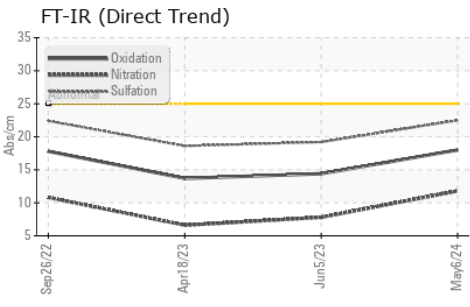
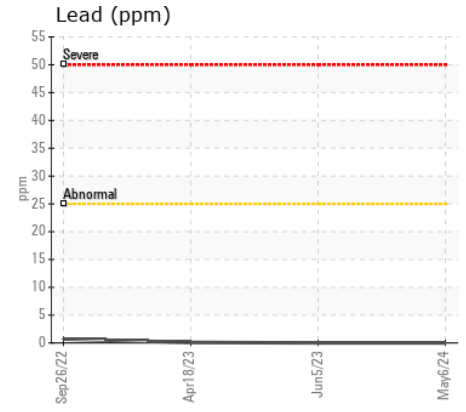
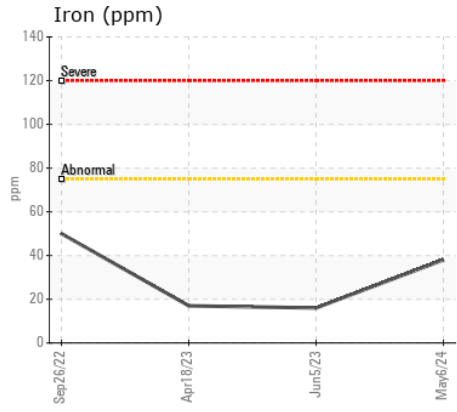
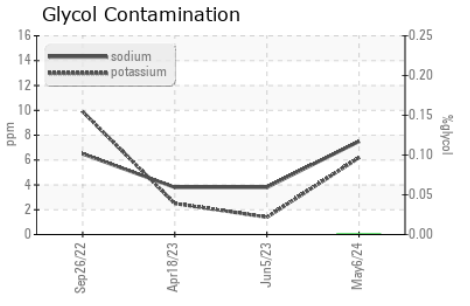
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	3	3
Potassium	ppm	ASTM D5185(m)	>20	6	1	2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>6	1	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	11.8	7.8	6.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.5	19.2	18.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		8	4	4
Boron	ppm	ASTM D5185(m)	0	9	12	15
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	64	63	61
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	908	948	921
Calcium	ppm	ASTM D5185(m)	1070	1061	1130	1128
Phosphorus	ppm	ASTM D5185(m)	1150	896	1068	1062
Zinc	ppm	ASTM D5185(m)	1270	1144	1173	1145
Sulfur	ppm	ASTM D5185(m)	2060	2370	2636	2655
Oxidation	Abs/.1mm	ASTM D7414*	>25	18.0	14.4	13.7
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.1	13.4	13.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112669 **Received** : 21 Jun 2024
Lab Number : 02643317 **Tested** : 21 Jun 2024
Unique Number : 5800856 **Diagnosed** : 21 Jun 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

GFL Environmental - 255 - Blind River
 9 Industrial Park Road East
 Blind River, ON
 CA P0R 1B0
 Contact: Jason Haman
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 T: (705)356-4118
 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.