



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
924002
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		GFL0113200	GFL0097315	GFL0053580
Sample Date		Client Info		24 Apr 2024	16 Nov 2023	29 Sep 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		21788	20971	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	8	10	22
Chromium	ppm	ASTM D5185(m)	>20	0	<1	2
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	4	13
Lead	ppm	ASTM D5185(m)	>40	0	<1	1
Copper	ppm	ASTM D5185(m)	>330	<1	1	3
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

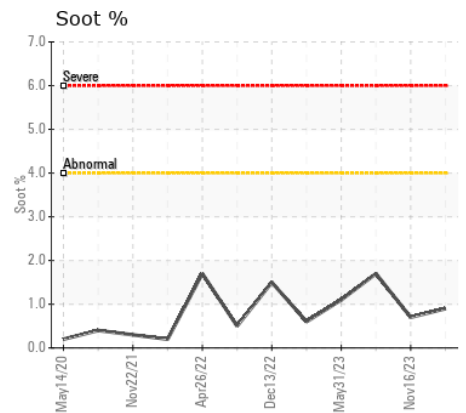
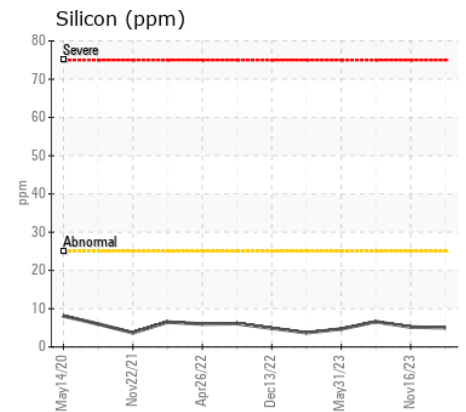
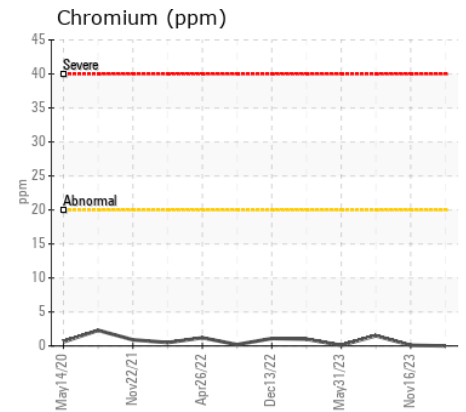
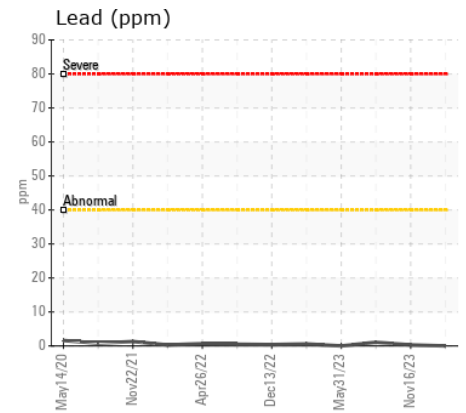
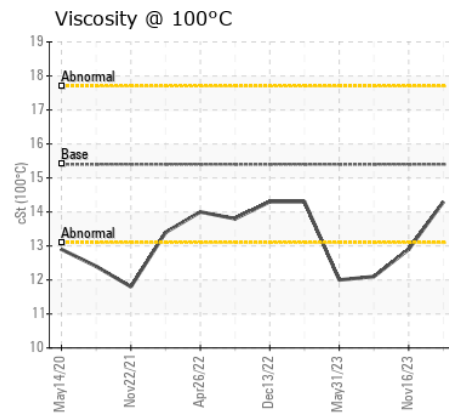
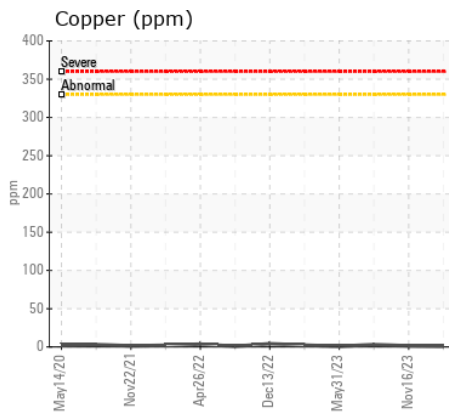
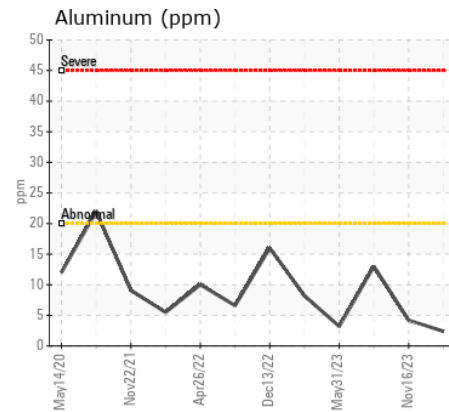
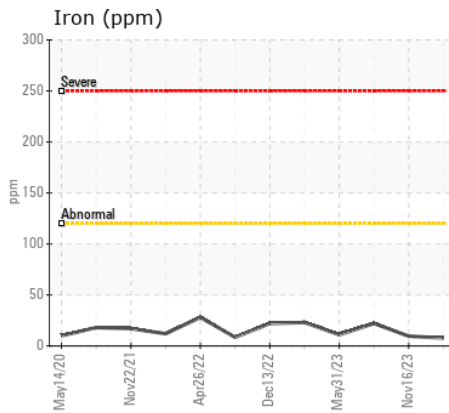
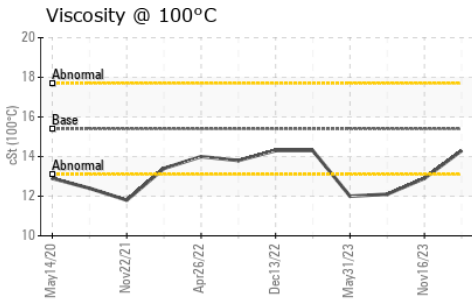
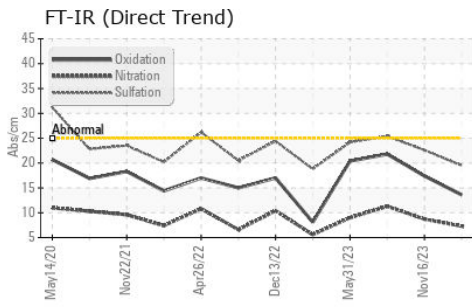
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	5	5	7
Potassium	ppm	ASTM D5185(m)	>20	<1	4	<1
Fuel		WC Method	>3.0	<1.0	1.1	1.3
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.9	0.7	1.7
Nitration	Abs/cm	ASTM D7624*	>20	7.3	8.7	11.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.5	22.6	25.4
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)		2	4	4
Boron	ppm	ASTM D5185(m)	0	17	118	22
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	60	63	6	39
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	861	55	470
Calcium	ppm	ASTM D5185(m)	1070	1069	2120	1769
Phosphorus	ppm	ASTM D5185(m)	1150	932	878	722
Zinc	ppm	ASTM D5185(m)	1270	1102	1098	899
Sulfur	ppm	ASTM D5185(m)	2060	2414	2678	1968
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.6	17.4	21.8
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.3	12.9	▲ 12.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113200
Lab Number : 02631543
Unique Number : 5772696
Test Package : MOB 1
Received : 26 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Wes Davis

GFL Environmental - 246 - Windsor
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 Windsor, ON
 CA N8W 5H8
 Contact: Dave Varga
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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.