



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
7982
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (19 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0122295	GFL0117885	GFL0111723
Sample Date		Client Info		12 Jun 2024	02 Apr 2024	18 Mar 2024
Machine Age	kms	Client Info		126359	126359	12145
Oil Age	kms	Client Info		0	0	600
Filter Age	kms	Client Info		0	0	600
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	MARGINAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	22	6	19
Chromium	ppm	ASTM D5185(m)	>5	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	2	1	1
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

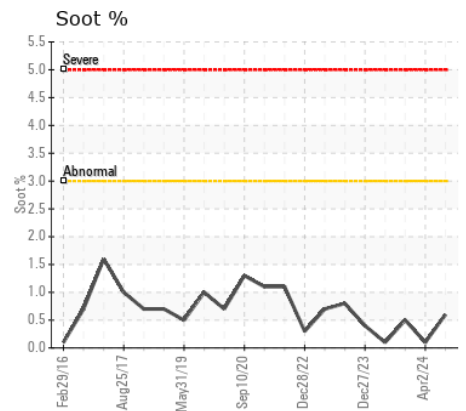
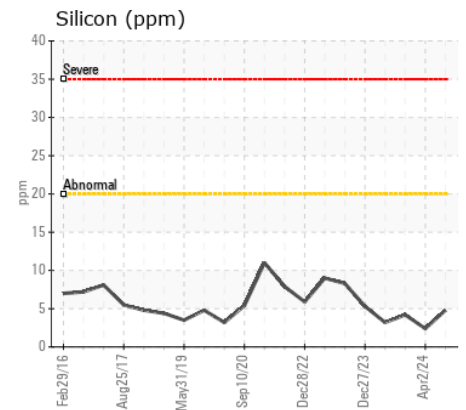
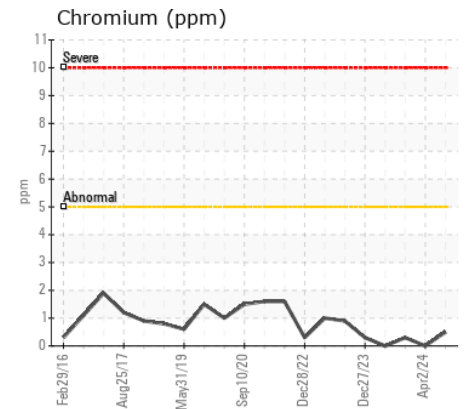
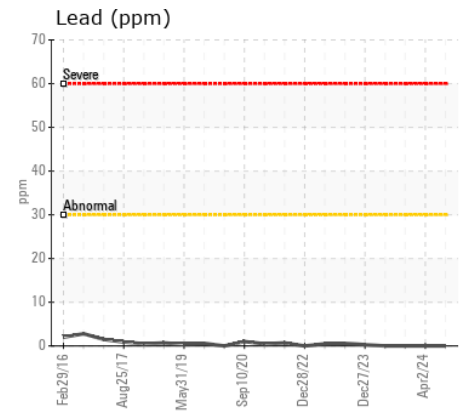
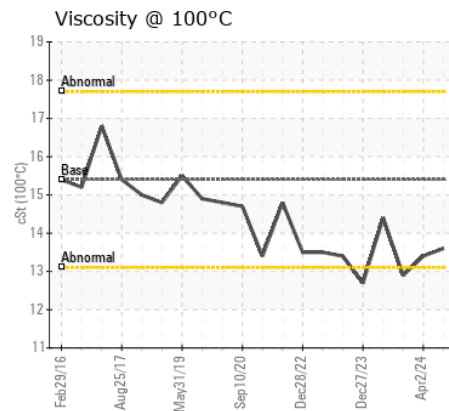
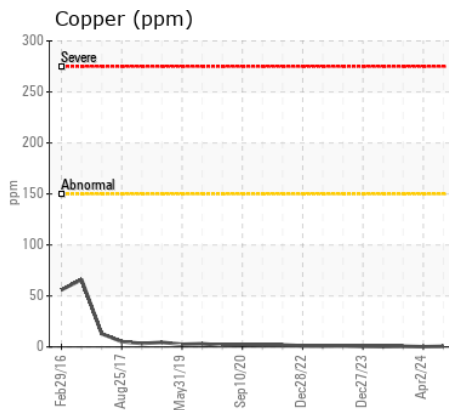
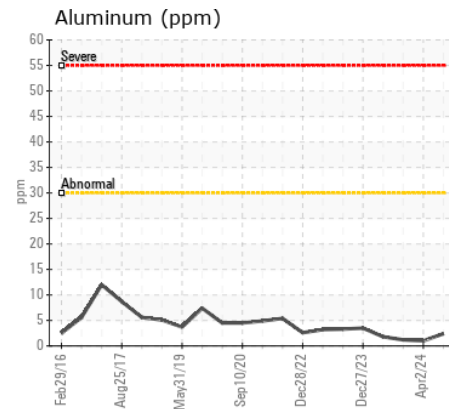
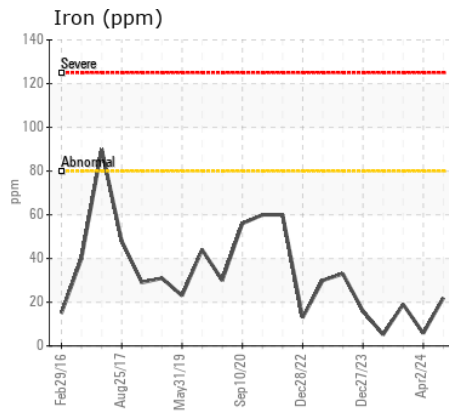
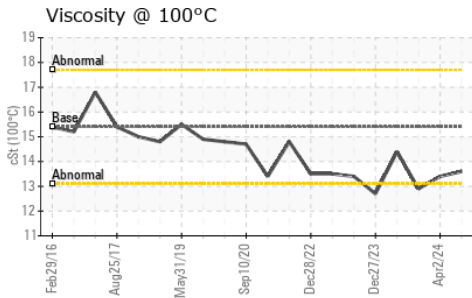
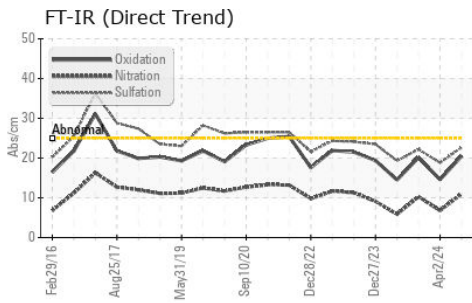
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	5	2	4
Potassium	ppm	ASTM D5185(m)	>20	1	<1	3
Fuel		WC Method	>5	<1.0	▲ 3.6	▲ 5.6
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.6	0.1	0.5
Nitration	Abs/cm	ASTM D7624*	>20	11.0	6.8	10.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	22.7	18.8	22.2
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)		7	3	12
Boron	ppm	ASTM D5185(m)	0	9	11	28
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	61	56	62
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	928	874	841
Calcium	ppm	ASTM D5185(m)	1070	1056	1004	1077
Phosphorus	ppm	ASTM D5185(m)	1150	983	954	946
Zinc	ppm	ASTM D5185(m)	1270	1190	1114	1139
Sulfur	ppm	ASTM D5185(m)	2060	2357	2439	2291
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.5	14.6	20.1
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.6	13.4	▲ 12.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0122295
Lab Number : 02641657
Unique Number : 5799196
Test Package : MOB 1

Received : 13 Jun 2024
Tested : 13 Jun 2024
Diagnosed : 13 Jun 2024 - Wes Davis

GFL Environmental - 217 - Aurora
 14131 BAYVIEW AVE, AURORA YARD
 AURORA, ON
 CA L4G 0K6
 Contact: Mike Havens
 MHavens@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.

T:
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