



Machine Id
4556
Component
Diesel Engine
Fluid
PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112410	GFL0091632	GFL0077546
Sample Date		Client Info		17 Feb 2024	25 Sep 2023	11 Apr 2023
Machine Age	hrs	Client Info		15735	15176	14611
Oil Age	hrs	Client Info		0	0	14611
Filter Age	hrs	Client Info		0	0	14611
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)	>130	56	97	33
Chromium	ppm	ASTM D5185(m)	>10	<1	2	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	2	3
Lead	ppm	ASTM D5185(m)	>20	0	0	0
Copper	ppm	ASTM D5185(m)	>125	<1	2	<1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

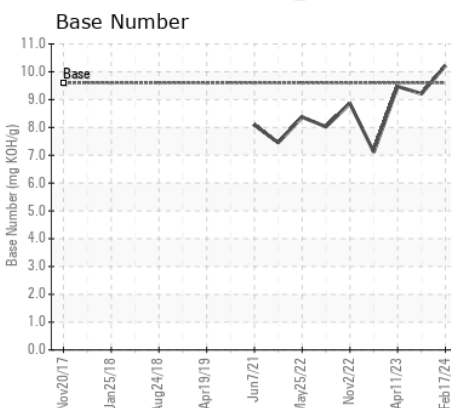
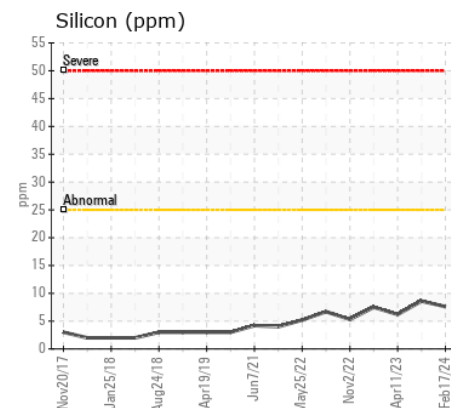
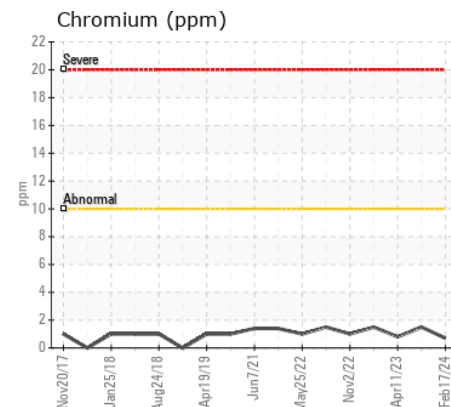
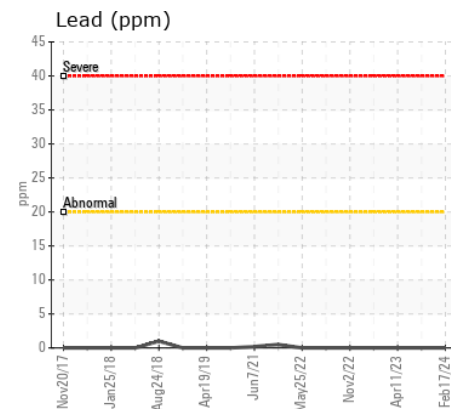
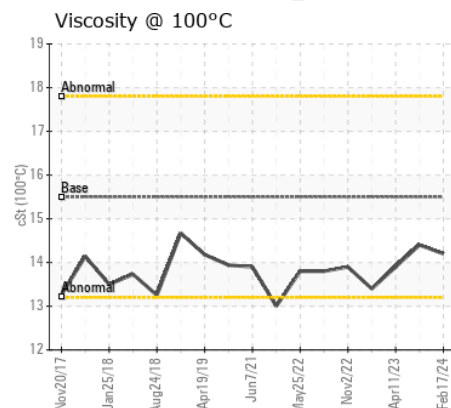
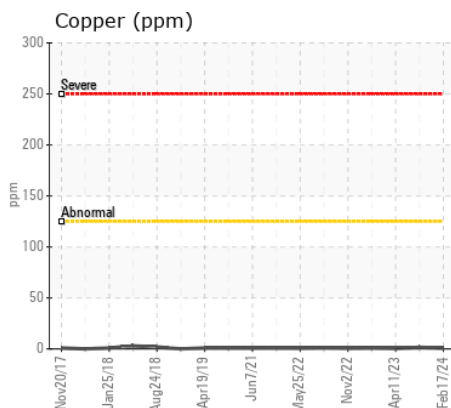
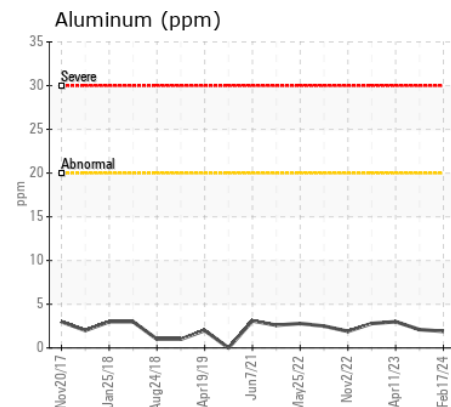
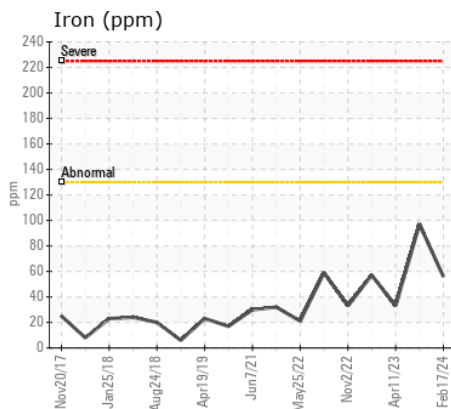
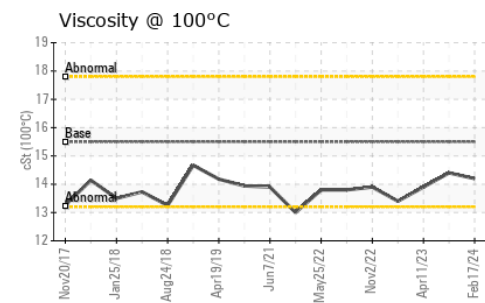
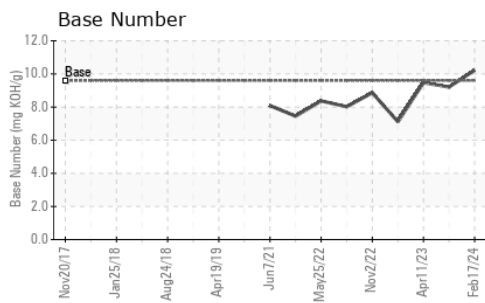
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	8	9	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	1
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
Soot %	%	ASTM D7844*	>6	0.1	0.4	0.2
Nitration	Abs/cm	ASTM D7624*	>20	5.5	8.0	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.1	19.8	18.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185(m)		1	2	2
Boron	ppm	ASTM D5185(m)	1	3	3	2
Barium	ppm	ASTM D5185(m)	1	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	55	59	56
Manganese	ppm	ASTM D5185(m)	1	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	902	949	928
Calcium	ppm	ASTM D5185(m)	1070	1013	1064	1066
Phosphorus	ppm	ASTM D5185(m)	1150	966	994	1043
Zinc	ppm	ASTM D5185(m)	1270	1118	1199	1156
Sulfur	ppm	ASTM D5185(m)	2060	2637	2480	2561
Oxidation	Abs/.1mm	ASTM D7414*	>25	13.6	16.3	14.6
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	10.22	9.21	9.47
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	14.2	14.4	13.9



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112410
Lab Number : 02618610
Unique Number : 5735720
Test Package : MOB 2
Received : 28 Feb 2024
Tested : 29 Feb 2024
Diagnosed : 29 Feb 2024 - Wes Davis

GFL Environmental - 550 - Rocky View County
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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.