

Machine Id
220066
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		GFL0112452	GFL0117346	GFL0099540
Sample Date		Client Info		18 Jun 2024	16 May 2024	27 Dec 2023
Machine Age	hrs	Client Info		101	13528	462797
Oil Age	hrs	Client Info		101	600	0
Filter Age	hrs	Client Info		101	600	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>100	8	19	6
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	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)	>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
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

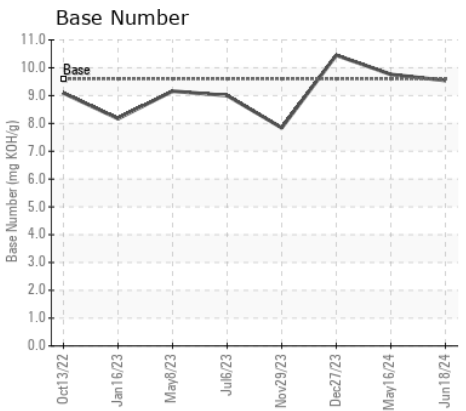
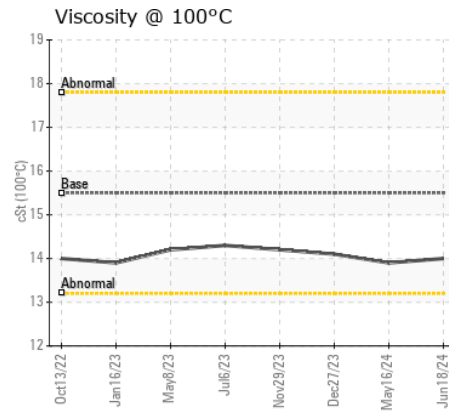
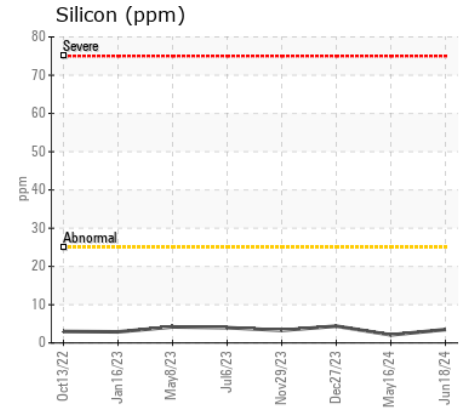
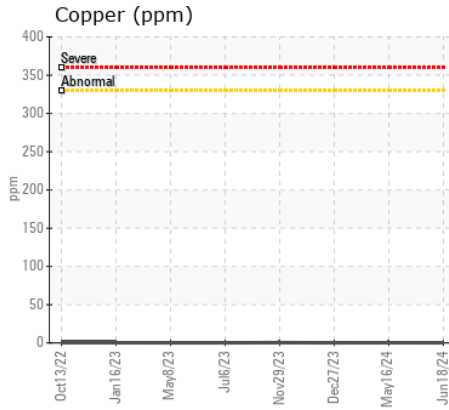
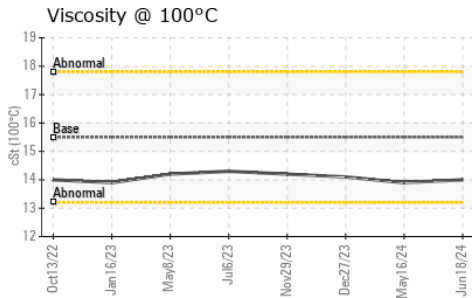
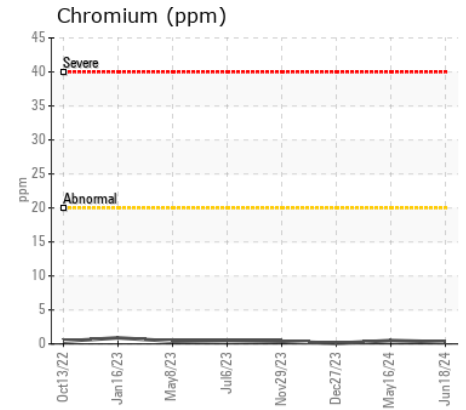
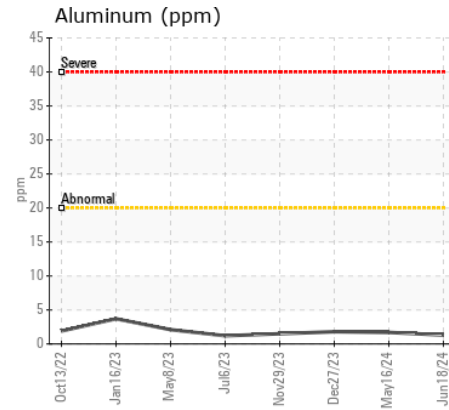
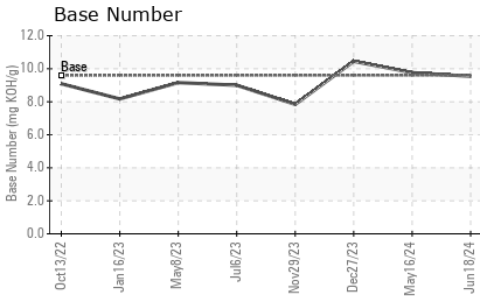
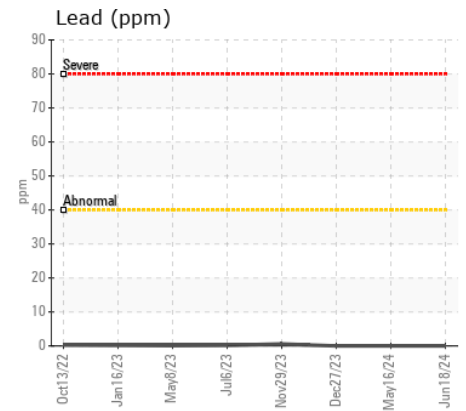
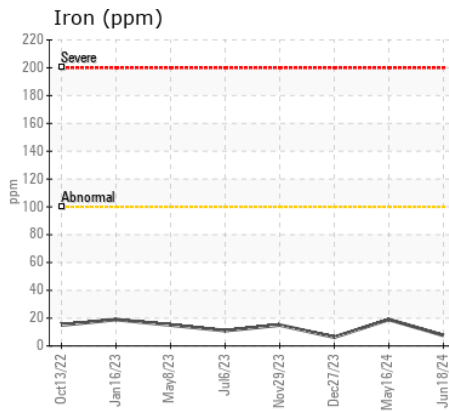
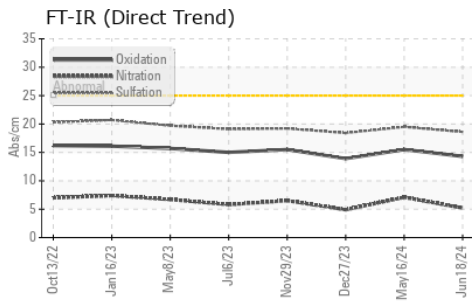
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	2	4
Potassium	ppm	ASTM D5185(m)	>20	<1	1	0
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	5.2	7.1	4.9
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.6	19.5	18.4
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	<1
Boron	ppm	ASTM D5185(m)	1	9	3	4
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	57	58	55
Manganese	ppm	ASTM D5185(m)	1	0	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	915	965	916
Calcium	ppm	ASTM D5185(m)	1070	1025	1072	1040
Phosphorus	ppm	ASTM D5185(m)	1150	948	968	971
Zinc	ppm	ASTM D5185(m)	1270	1128	1187	1135
Sulfur	ppm	ASTM D5185(m)	2060	2467	2325	2653
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.3	15.5	13.9
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	9.54	9.76	10.45
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	14.0	13.9	14.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112452
Lab Number : 02643977
Unique Number : 5801516
Test Package : MOB 2
Received : 25 Jun 2024
Tested : 26 Jun 2024
Diagnosed : 26 Jun 2024 - Wes Davis

GFL Environmental - 550 - Rocky View County
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 Rocky View County, AB
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 calgarymaintenance@gflenv.com
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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.