



Machine Id
801074
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		GFL0117265	GFL0117340	GFL0099612
Sample Date		Client Info		06 Jun 2024	09 May 2024	08 Feb 2024
Machine Age	hrs	Client Info		0	14933	14258
Oil Age	hrs	Client Info		0	680	802
Filter Age	hrs	Client Info		0	680	802
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	MARGINAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	15	31	67
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	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	3	7
Lead	ppm	ASTM D5185(m)	>30	0	0	<1
Copper	ppm	ASTM D5185(m)	>150	3	1	2
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

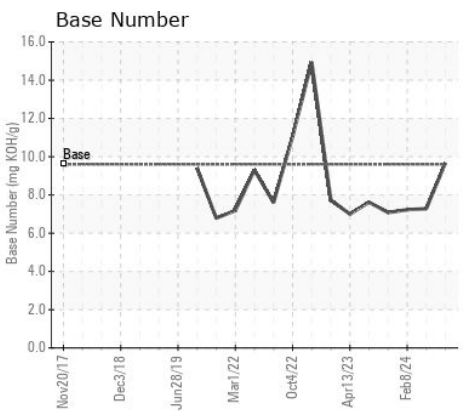
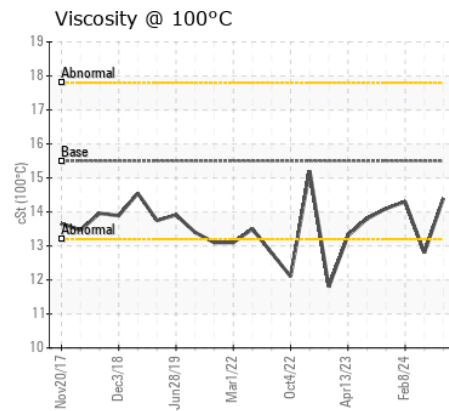
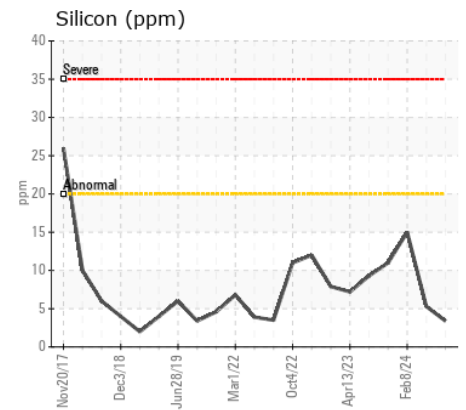
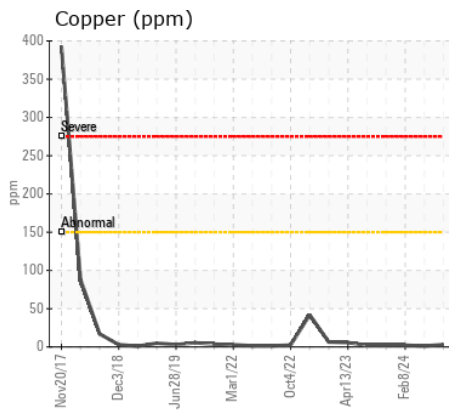
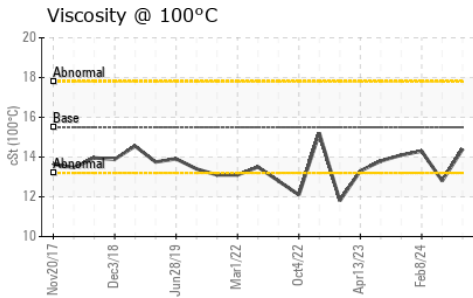
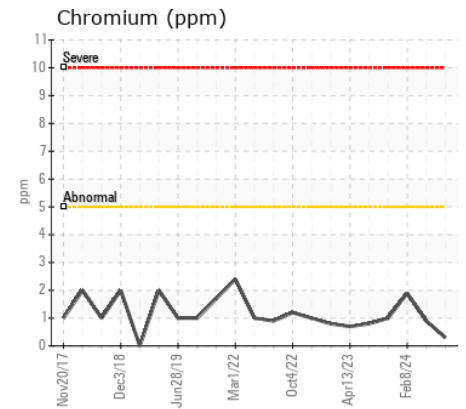
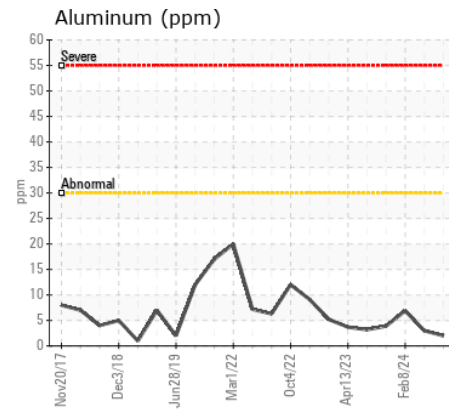
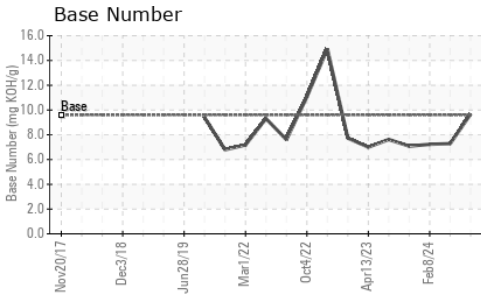
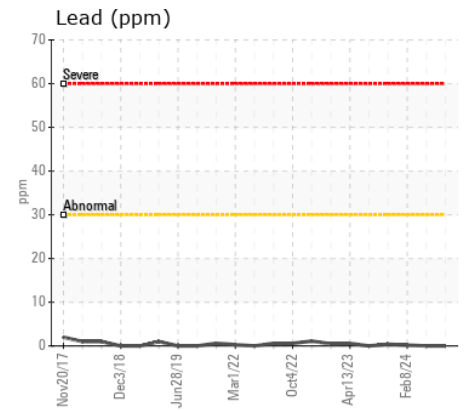
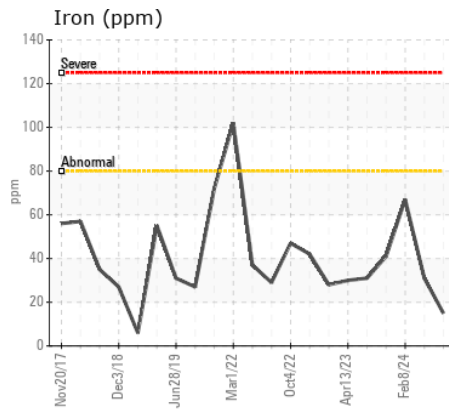
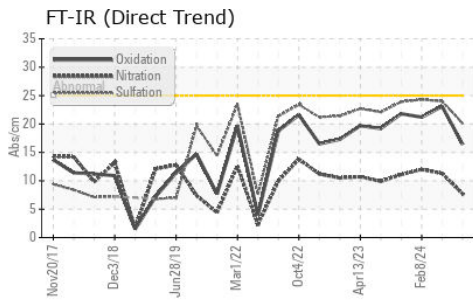
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	3	5	15
Potassium	ppm	ASTM D5185(m)	>20	<1	2	3
Fuel		WC Method	>5	<1.0	▲ 4.1	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	0.0
Soot %	%	ASTM D7844*	>3	0.3	0.6	0.9
Nitration	Abs/cm	ASTM D7624*	>20	7.7	11.3	12.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	24.0	24.3
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)		37	121	● 163
Boron	ppm	ASTM D5185(m)	1	4	2	2
Barium	ppm	ASTM D5185(m)	1	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	58	63
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	945	827	909
Calcium	ppm	ASTM D5185(m)	1070	1058	990	1039
Phosphorus	ppm	ASTM D5185(m)	1150	950	855	926
Zinc	ppm	ASTM D5185(m)	1270	1162	1049	1140
Sulfur	ppm	ASTM D5185(m)	2060	2397	2079	2377
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.4	23.1	21.2
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	9.67	7.28	7.23
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	14.4	12.8	14.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0117265
Lab Number : 02641073
Unique Number : 5798612
Test Package : MOB 2

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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.