



Machine Id
801074
Component
Diesel Engine
Fluid
PETRO CANADA DURON XL SYN BLEND 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0117340	GFL0099612	GFL0091556
Sample Date		Client Info		09 May 2024	08 Feb 2024	03 Oct 2023
Machine Age	hrs	Client Info		14933	14258	13517
Oil Age	hrs	Client Info		680	802	600
Filter Age	hrs	Client Info		680	802	600
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	31	67	41
Chromium	ppm	ASTM D5185(m)	>5	<1	2	1
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	<1
Aluminum	ppm	ASTM D5185(m)	>30	3	7	4
Lead	ppm	ASTM D5185(m)	>30	0	<1	<1
Copper	ppm	ASTM D5185(m)	>150	1	2	2
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

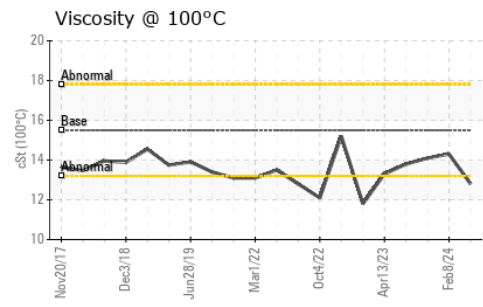
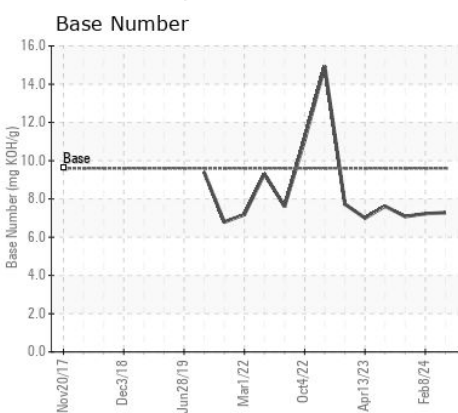
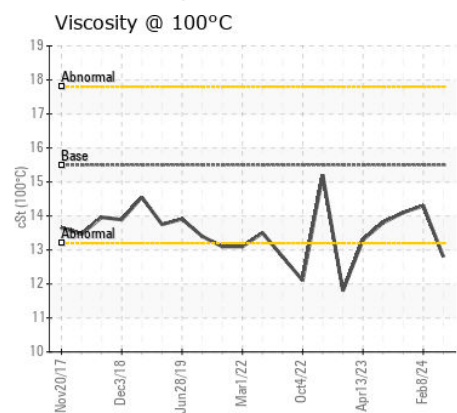
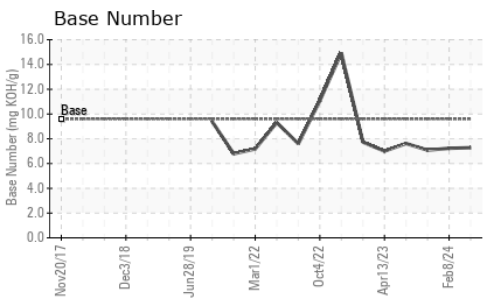
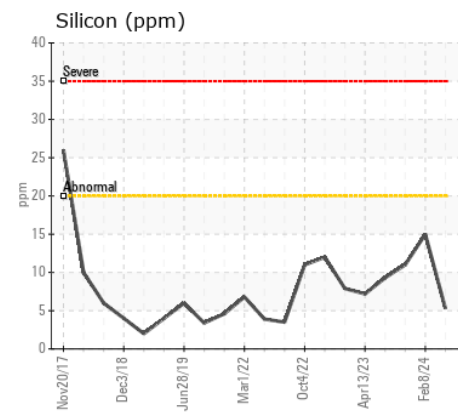
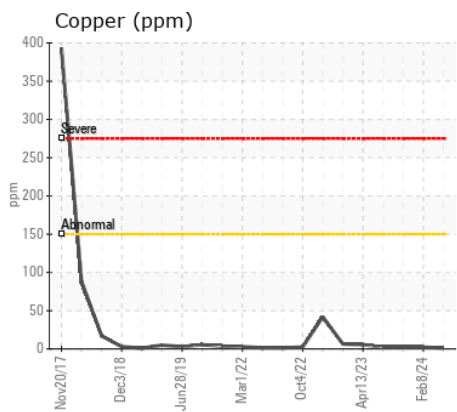
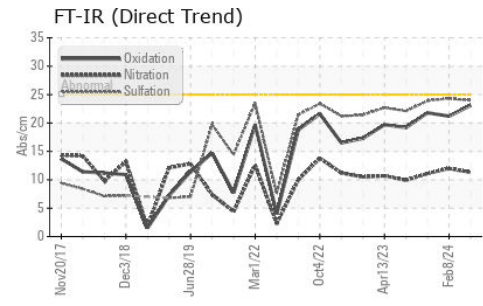
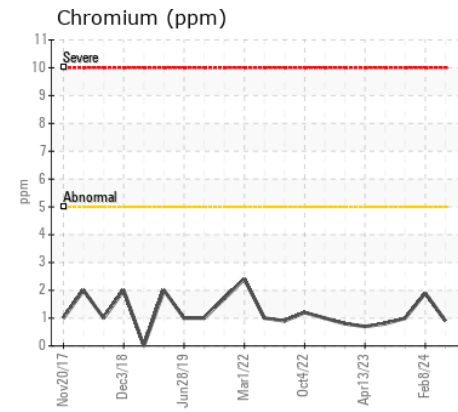
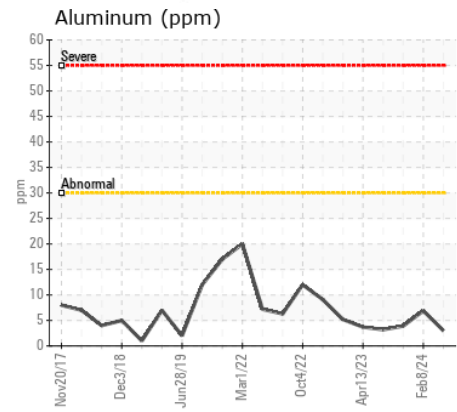
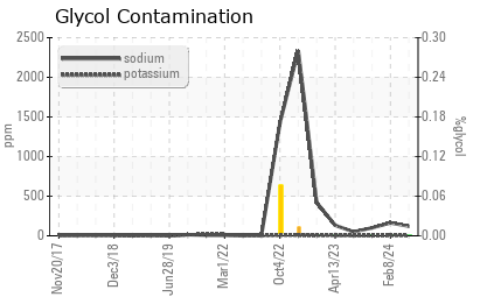
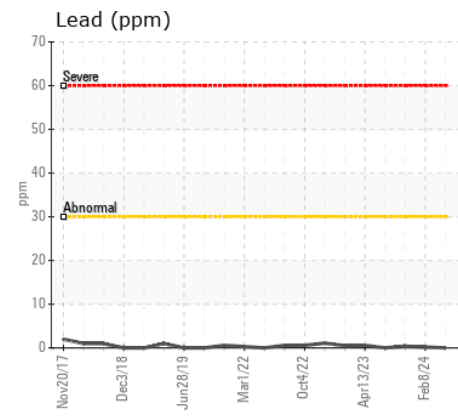
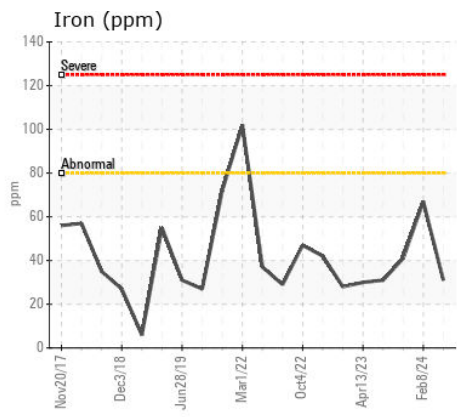
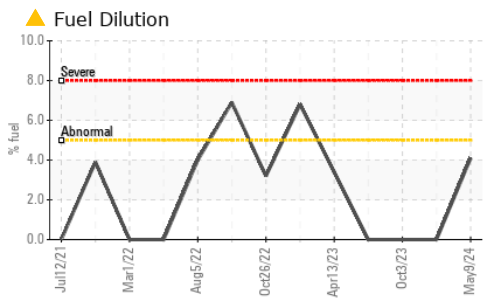
Light fuel dilution occurring. Test for glycol is negative. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>20	5	15	11
Potassium	ppm	ASTM D5185(m)	>20	2	3	1
Fuel	%	ASTM D7593*	>5	▲ 4.1	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	0.0	0.0
Soot %	%	ASTM D7844*	>3	0.6	0.9	0.7
Nitration	Abs/cm	ASTM D7624*	>20	11.3	12.0	11.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	24.0	24.3	23.9
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)		121	● 163	101
Boron	ppm	ASTM D5185(m)	1	2	2	2
Barium	ppm	ASTM D5185(m)	1	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	58	63	63
Manganese	ppm	ASTM D5185(m)	1	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	827	909	932
Calcium	ppm	ASTM D5185(m)	1070	990	1039	1024
Phosphorus	ppm	ASTM D5185(m)	1150	855	926	909
Zinc	ppm	ASTM D5185(m)	1270	1049	1140	1172
Sulfur	ppm	ASTM D5185(m)	2060	2079	2377	2302
Oxidation	Abs/.1mm	ASTM D7414*	>25	23.1	21.2	21.8
Base Number (BN)	mg KOH/g	ASTM D2896*	9.6	7.28	7.23	7.08
Visc @ 100°C	cSt	ASTM D7279(m)	15.5	12.8	14.3	14.1



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0117340 **Received** : 16 May 2024
Lab Number : 02635984 **Tested** : 17 May 2024
Unique Number : 5785146 **Diagnosed** : 17 May 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: FuelDilution, Glycol, PercentFuel)

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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.