



Machine Id
9944
Component
Diesel Engine
Fluid
PETRO CANADA DURON-E XL 15W40 (--- LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0113258	GFL0097320	GFL0090842
Sample Date		Client Info		06 Mar 2024	14 Nov 2023	22 Aug 2023
Machine Age	hrs	Client Info		0	0	18685
Oil Age	hrs	Client Info		19838	192311	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	4	3	2
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	<1
Lead	ppm	ASTM D5185(m)	>40	<1	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

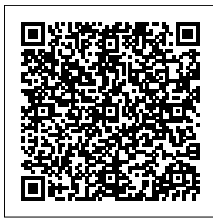
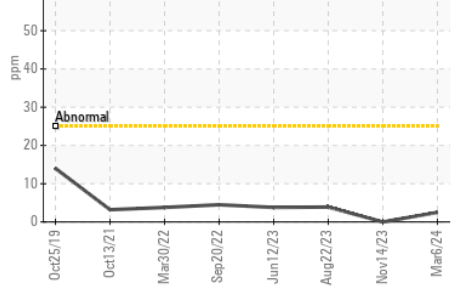
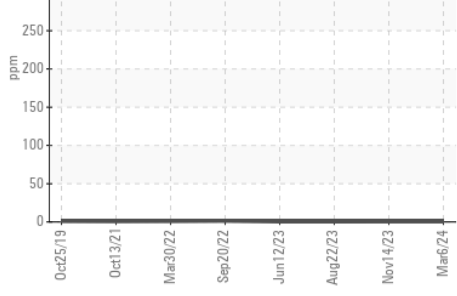
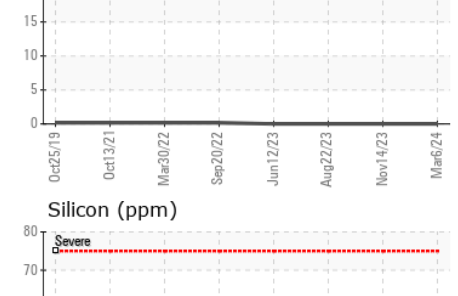
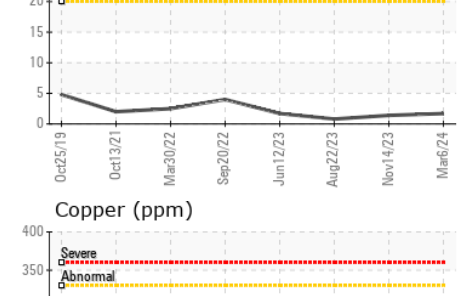
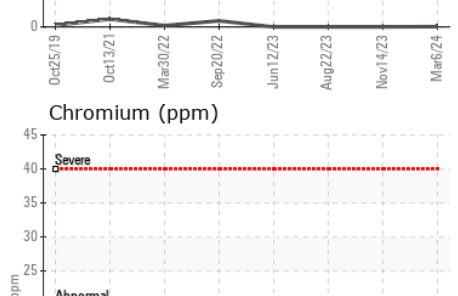
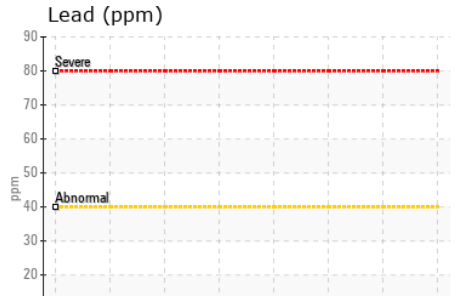
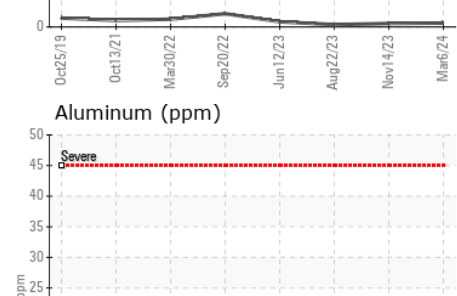
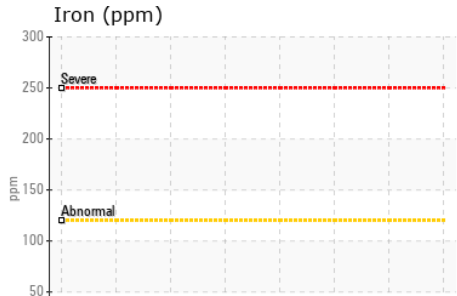
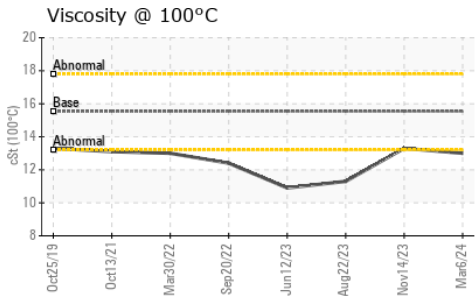
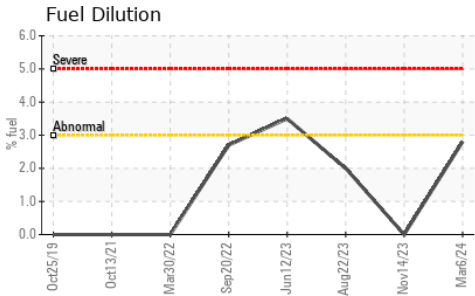
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	0	4
Potassium	ppm	ASTM D5185(m)	>20	2	4	<1
Fuel	%	ASTM D7593*	>3.0	2.8	<1.0	2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.1	0.1	0
Nitration	Abs/cm	ASTM D7624*	>20	8.7	8.4	5.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.9	22.9	22.7
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)		3	5	2
Boron	ppm	ASTM D5185(m)	1	14	107	60
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	50	4	35
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	786	51	454
Calcium	ppm	ASTM D5185(m)	1070	1133	2036	1645
Phosphorus	ppm	ASTM D5185(m)	1150	941	905	780
Zinc	ppm	ASTM D5185(m)	1270	1110	1079	844
Sulfur	ppm	ASTM D5185(m)	2060	2621	2728	2161
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.7	18.1	19.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.54	13.0	13.3	▲ 11.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113258 **Received** : 07 Mar 2024
Lab Number : 02620402 **Tested** : 08 Mar 2024
Unique Number : 5737512 **Diagnosed** : 08 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

GFL Environmental - 246 - Windsor
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 CA N8W 5H8
 Contact: Dave Varga
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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.