



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
512009
Component
Diesel Engine
Fluid
PETRO CANADA DURON SAE 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0120104	GFL0108178	GFL0090883
Sample Date		Client Info		25 Jun 2024	13 Feb 2024	26 Sep 2023
Machine Age	kms	Client Info		318226	263864	206384
Oil Age	kms	Client Info		54362	57480	0
Filter Age	kms	Client Info		0	57480	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	27	30	29
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	2	2	1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	3	4	3
Lead	ppm	ASTM D5185(m)	>40	1	2	2
Copper	ppm	ASTM D5185(m)	>330	7	12	18
Tin	ppm	ASTM D5185(m)	>15	1	2	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

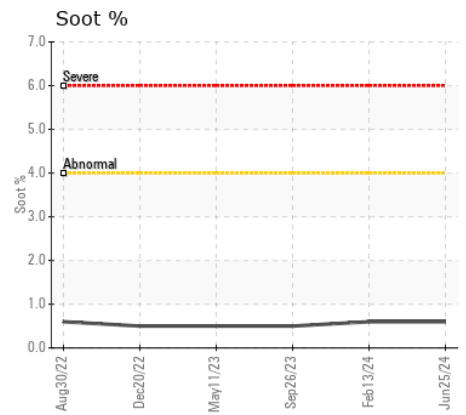
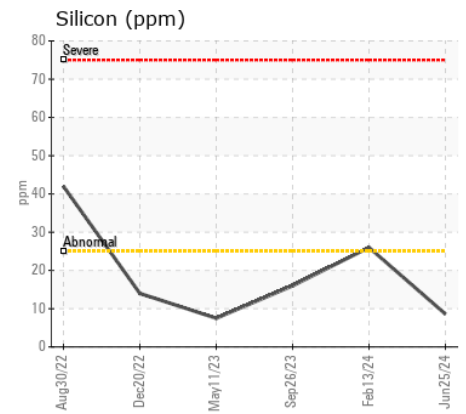
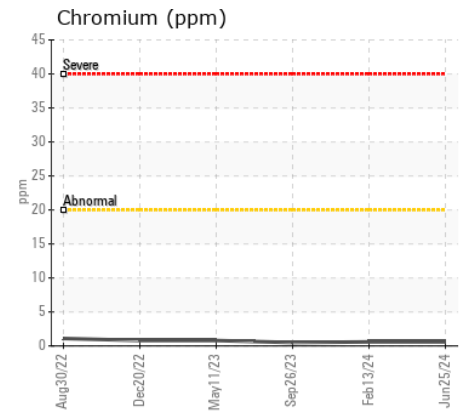
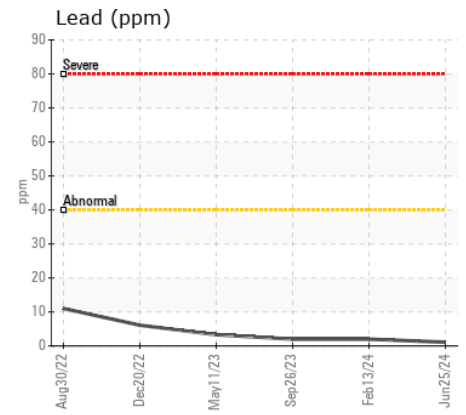
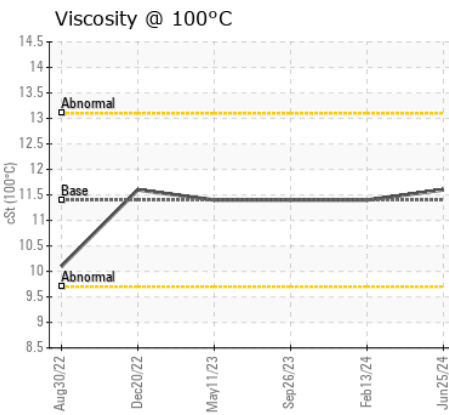
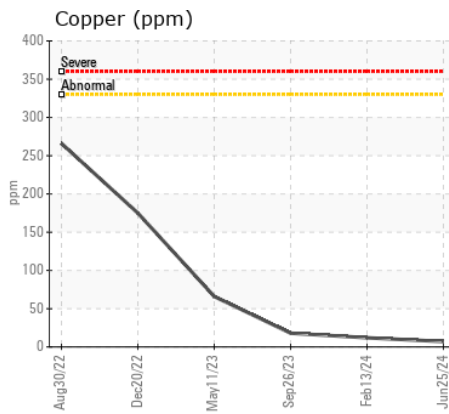
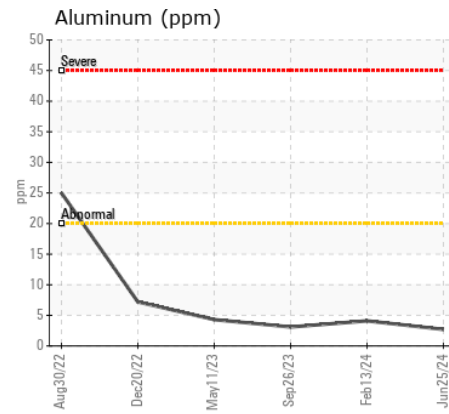
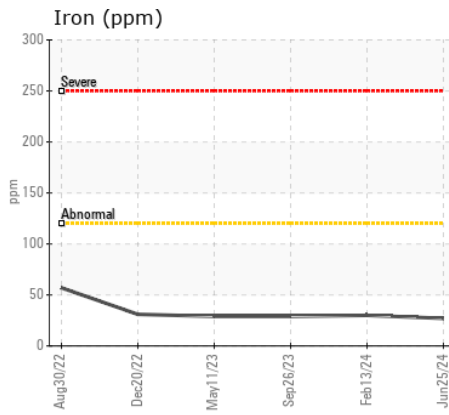
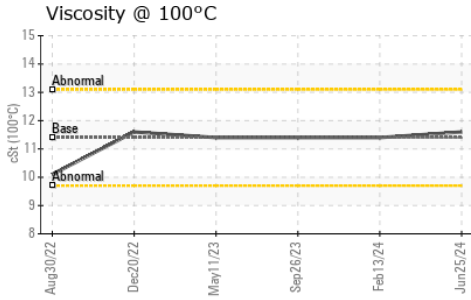
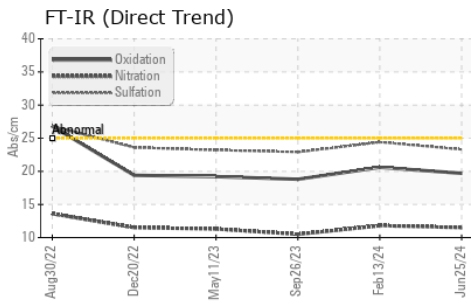
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	9	▲ 26	16
Potassium	ppm	ASTM D5185(m)	>20	2	4	4
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*	>4	0.6	0.6	0.5
Nitration	Abs/cm	ASTM D7624*	>20	11.5	11.8	10.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.3	24.4	22.9
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)		2	2	4
Boron	ppm	ASTM D5185(m)	1	2	2	4
Barium	ppm	ASTM D5185(m)	1	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	1	63	66	66
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	10	1005	1022	942
Calcium	ppm	ASTM D5185(m)	2942	1186	1180	1158
Phosphorus	ppm	ASTM D5185(m)	1102	970	988	887
Zinc	ppm	ASTM D5185(m)	1351	1242	1241	1178
Sulfur	ppm	ASTM D5185(m)	3903	2288	2459	2155
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.7	20.6	18.8
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.6	11.4	11.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0120104
Lab Number : 02644312
Unique Number : 5801851
Test Package : MOB 1
Received : 27 Jun 2024
Tested : 27 Jun 2024
Diagnosed : 27 Jun 2024 - Wes Davis

GFL Environmental - 245 - BJ Bear
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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.