



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
511018
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		GFL0115559	GFL0098573	GFL0084208
Sample Date		Client Info		29 Apr 2024	09 Nov 2023	04 Jun 2023
Machine Age	kms	Client Info		550659	522378	462028
Oil Age	kms	Client Info		28281	60350	0
Filter Age	kms	Client Info		28281	60350	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	45	46	42
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>15	2	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	4	2	2
Lead	ppm	ASTM D5185(m)	>40	1	2	2
Copper	ppm	ASTM D5185(m)	>330	9	6	7
Tin	ppm	ASTM D5185(m)	>15	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

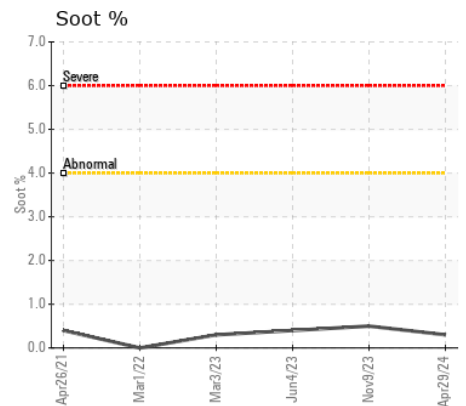
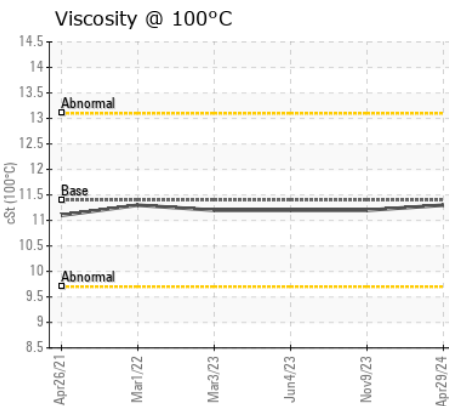
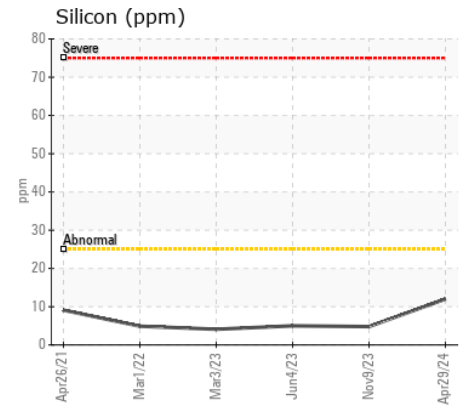
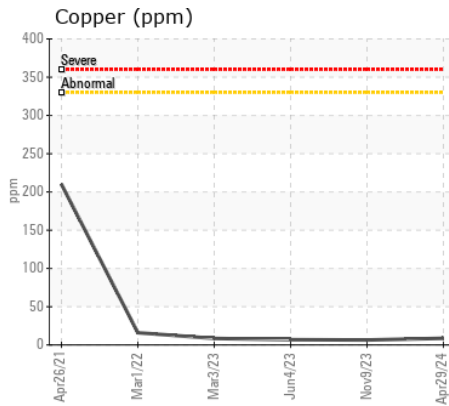
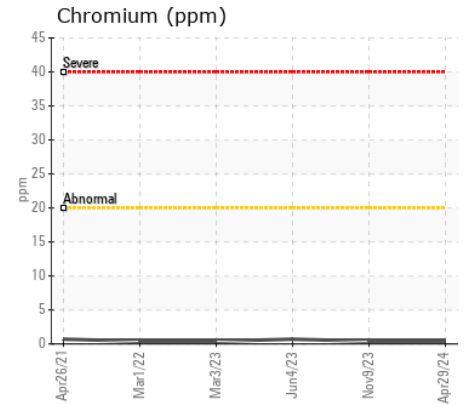
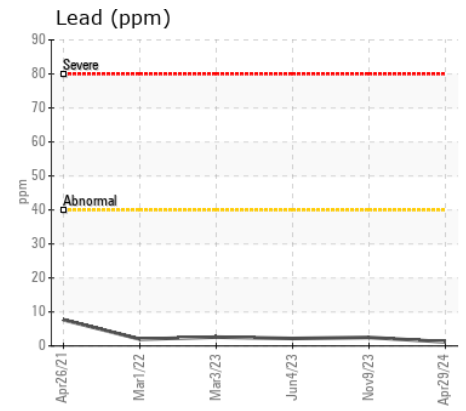
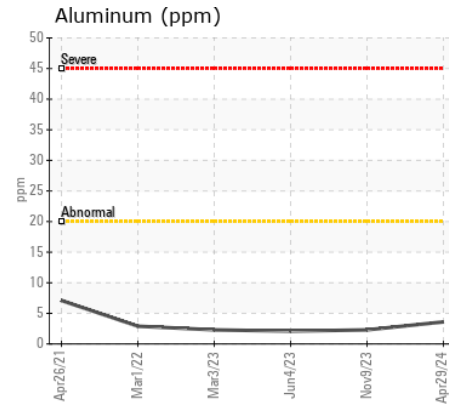
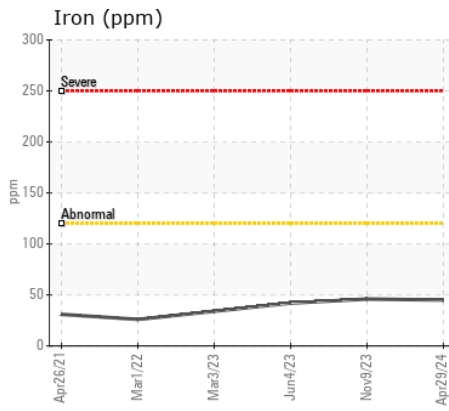
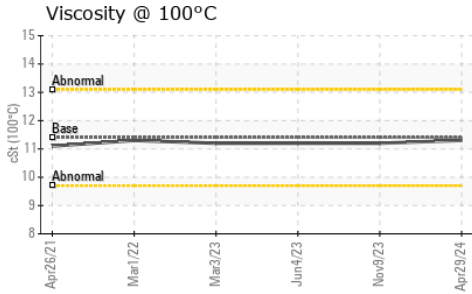
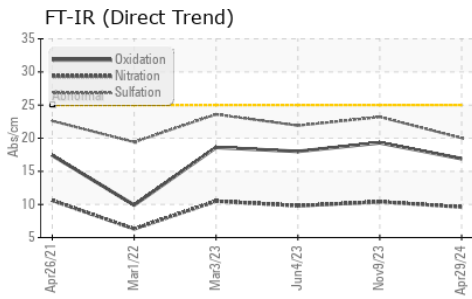
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	12	5	5
Potassium	ppm	ASTM D5185(m)	>20	2	2	<1
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	0.3	0.5	0.4
Nitration	Abs/cm	ASTM D7624*	>20	9.6	10.4	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	23.2	21.9
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	2
Boron	ppm	ASTM D5185(m)	1	2	2	2
Barium	ppm	ASTM D5185(m)	1	<1	<1	0
Molybdenum	ppm	ASTM D5185(m)	1	61	62	61
Manganese	ppm	ASTM D5185(m)	1	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	10	978	956	979
Calcium	ppm	ASTM D5185(m)	2942	1076	1104	1122
Phosphorus	ppm	ASTM D5185(m)	1102	1013	951	1028
Zinc	ppm	ASTM D5185(m)	1351	1194	1185	1218
Sulfur	ppm	ASTM D5185(m)	3903	2430	2195	2274
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.9	19.3	18.0
Visc @ 100°C	cSt	ASTM D7279(m)	11.4	11.3	11.2	11.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0115559
Lab Number : 02632499
Unique Number : 5773652
Test Package : MOB 1
Received : 01 May 2024
Tested : 01 May 2024
Diagnosed : 01 May 2024 - Wes Davis

GFL Environmental - 245 - BJ Bear
 2616 Cedar Creek Road
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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.