



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
501102
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0115553	GFL0090885	GFL0079645
Sample Date		Client Info		04 Apr 2024	22 Sep 2023	11 Apr 2023
Machine Age	kms	Client Info		675748	628403	542609
Oil Age	kms	Client Info		47345	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Not Chngd	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	26	22	21
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	2	<1	<1
Titanium	ppm	ASTM D5185(m)		<1	0	<1
Silver	ppm	ASTM D5185(m)	>2	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>25	4	4	5
Lead	ppm	ASTM D5185(m)	>40	1	3	2
Copper	ppm	ASTM D5185(m)	>330	4	5	7
Tin	ppm	ASTM D5185(m)	>15	<1	<1	1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

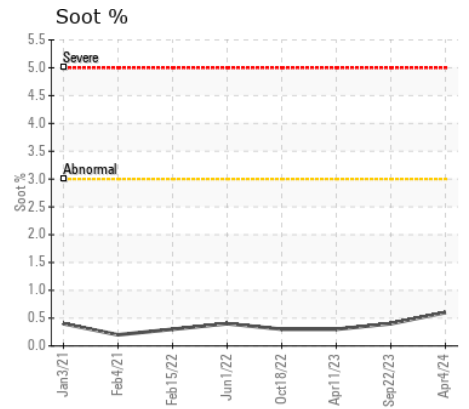
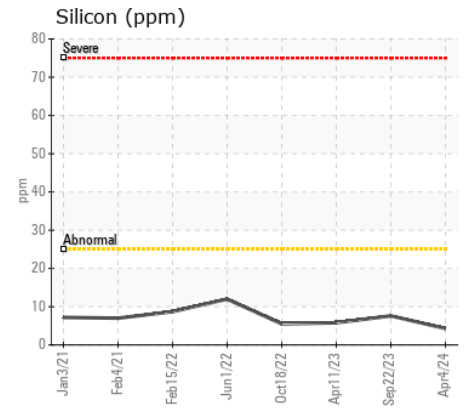
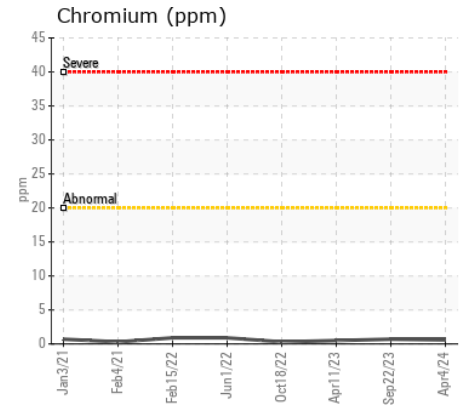
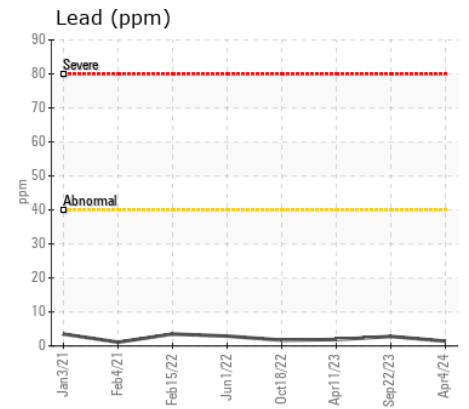
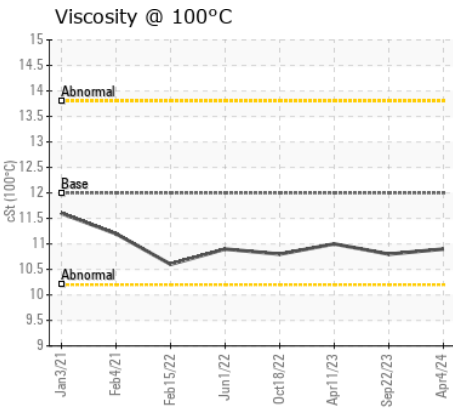
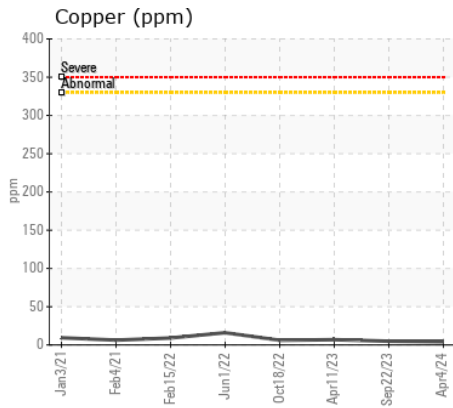
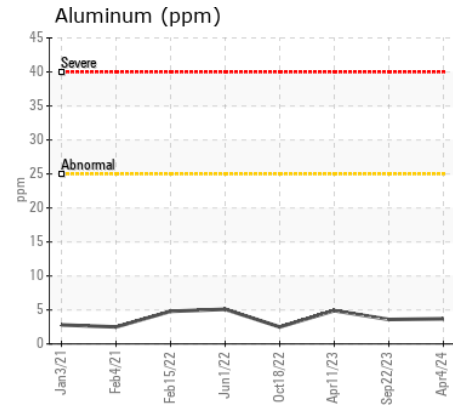
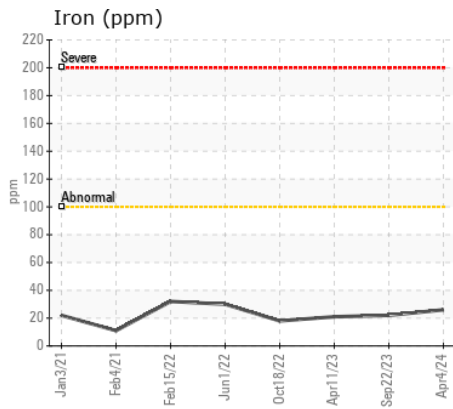
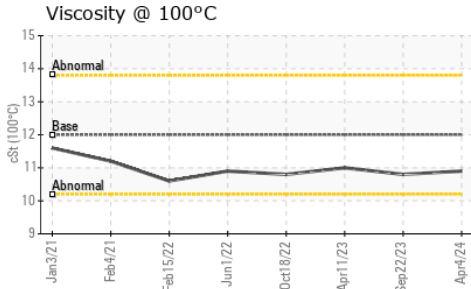
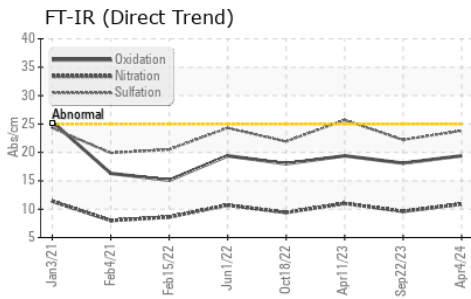
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	8	6
Potassium	ppm	ASTM D5185(m)	>20	3	12	2
Fuel		WC Method	>6.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>3	0.6	0.4	0.3
Nitration	Abs/cm	ASTM D7624*	>20	10.9	9.6	11.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	23.8	22.2	25.7
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)		17	71	12
Boron	ppm	ASTM D5185(m)	2	2	3	1
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	62	64	62
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	950	978	965	972
Calcium	ppm	ASTM D5185(m)	1050	1091	1092	1146
Phosphorus	ppm	ASTM D5185(m)	995	944	971	1026
Zinc	ppm	ASTM D5185(m)	1180	1207	1196	1205
Sulfur	ppm	ASTM D5185(m)	2600	2186	2301	2346
Oxidation	Abs/.1mm	ASTM D7414*	>25	19.4	18.1	19.4
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.9	10.8	11.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0115553
Lab Number : 02627268
Unique Number : 5760400
Test Package : MOB 1
Received : 08 Apr 2024
Tested : 08 Apr 2024
Diagnosed : 08 Apr 2024 - Wes Davis

GFL Environmental - 245 - BJ Bear
 2616 Cedar Creek Road
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 CA N0B 1E0
 Contact: Erik Prpic
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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.