



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
727003
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0102863	GFL0102868	GFL0097334
Sample Date		Client Info		01 Apr 2024	21 Mar 2024	21 Dec 2023
Machine Age	kms	Client Info		0	0	0
Oil Age	kms	Client Info		38975	38927	38403
Filter Age	kms	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	13	14	10
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
Nickel	ppm	ASTM D5185(m)	>5	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	6	1
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	8	2	3
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

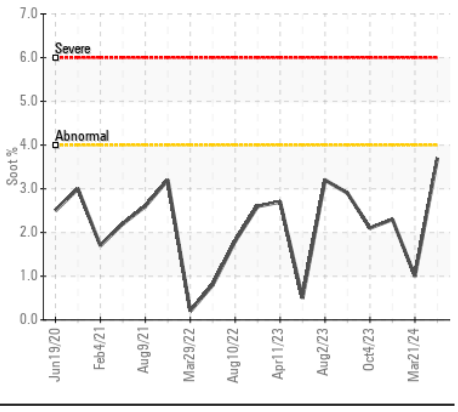
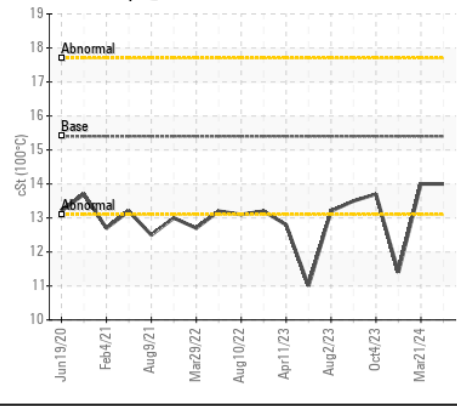
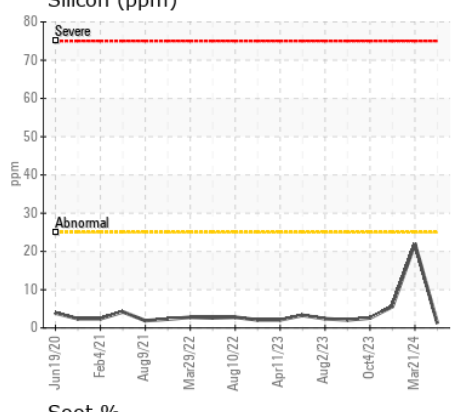
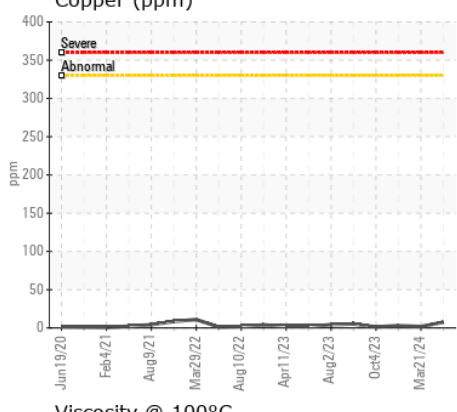
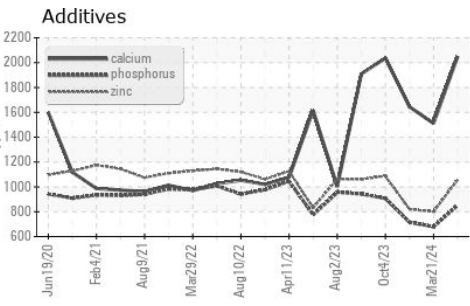
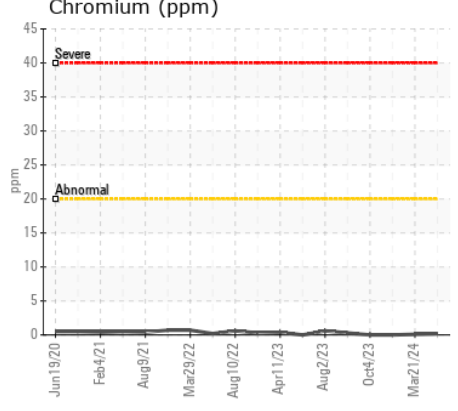
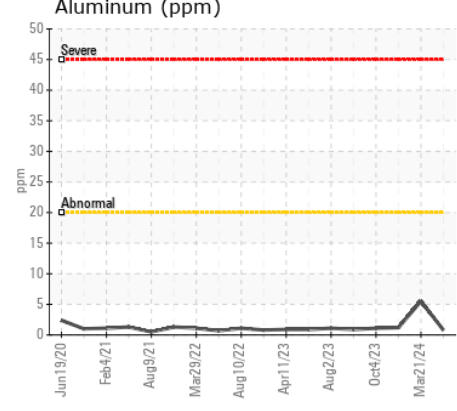
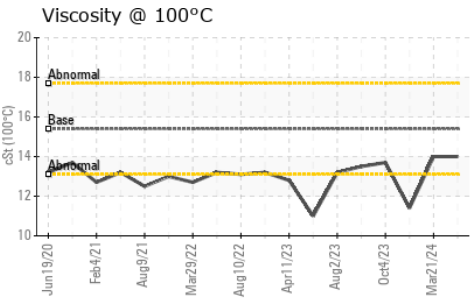
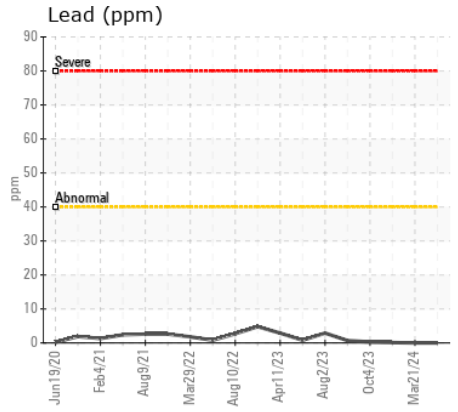
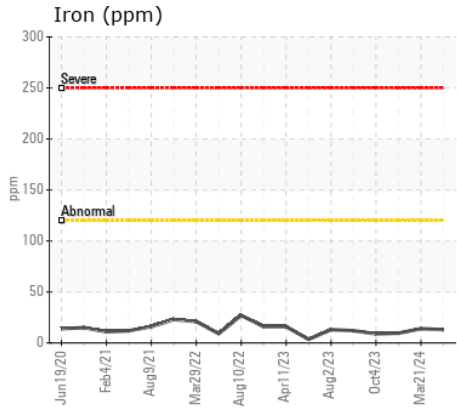
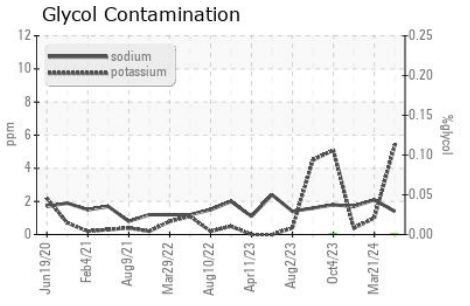
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	22	6
Potassium	ppm	ASTM D5185(m)	>20	5	1	<1
Fuel		WC Method	>3.0	<1.0	1.1	▲ 4.1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	NEG	NEG
Soot %	%	ASTM D7844*	>4	3.7	1	2.3
Nitration	Abs/cm	ASTM D7624*	>20	10.1	9.0	8.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	27.5	24.2	25.6
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	NEG

FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		1	2	2
Boron	ppm	ASTM D5185(m)	0	93	211	40
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	3	115	42
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	39	589	468
Calcium	ppm	ASTM D5185(m)	1070	2050	1511	1645
Phosphorus	ppm	ASTM D5185(m)	1150	852	679	716
Zinc	ppm	ASTM D5185(m)	1270	1056	800	820
Sulfur	ppm	ASTM D5185(m)	2060	2565	2012	2097
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.1	16.7	19.4
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.0	14.0	▲ 11.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0102863 **Received** : 02 Apr 2024
Lab Number : 02625964 **Tested** : 02 Apr 2024
Unique Number : 5759096 **Diagnosed** : 02 Apr 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: Glycol)

GFL Environmental - 246 - Windsor
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 Windsor, ON
 CA N8W 5H8
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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.