



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
831016
Component
Natural Gas 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		GFL0100775	GFL0100763	GFL0079580
Sample Date		Client Info		03 Jun 2024	21 Nov 2023	12 Jun 2023
Machine Age	kms	Client Info		172527	144332	123511
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	10	12	10
Chromium	ppm	ASTM D5185(m)	>4	<1	2	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>9	1	2	2
Lead	ppm	ASTM D5185(m)	>30	6	10	4
Copper	ppm	ASTM D5185(m)	>35	<1	2	<1
Tin	ppm	ASTM D5185(m)	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

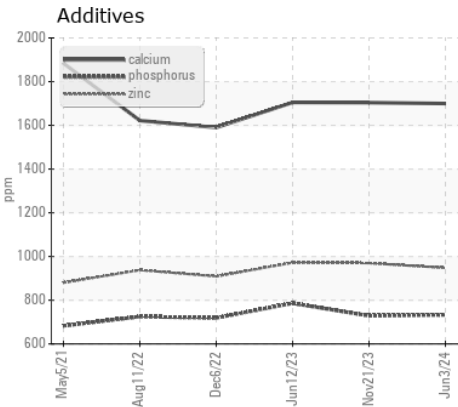
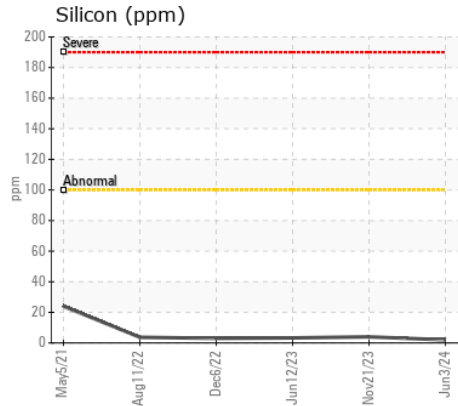
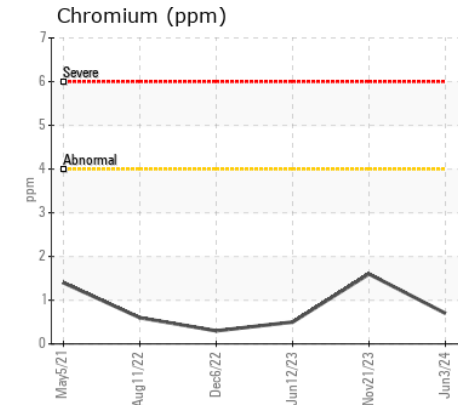
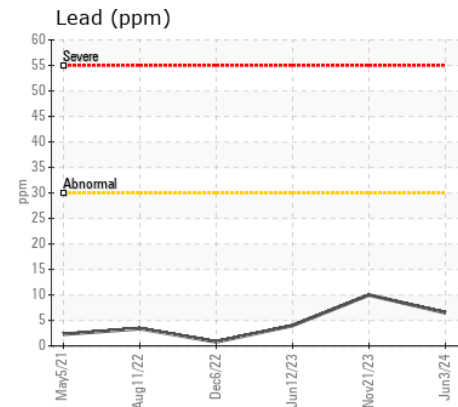
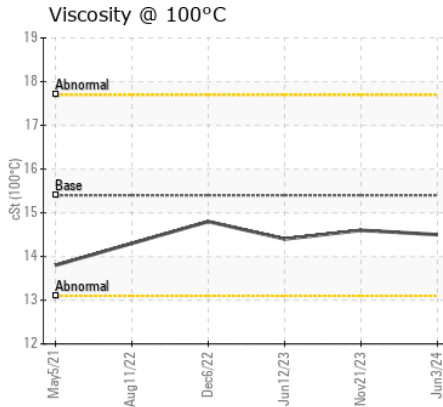
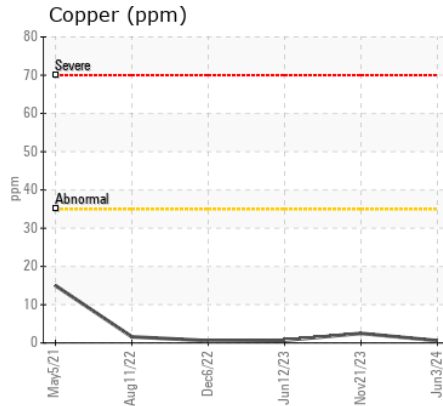
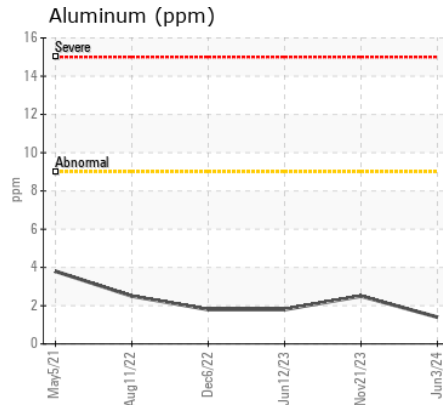
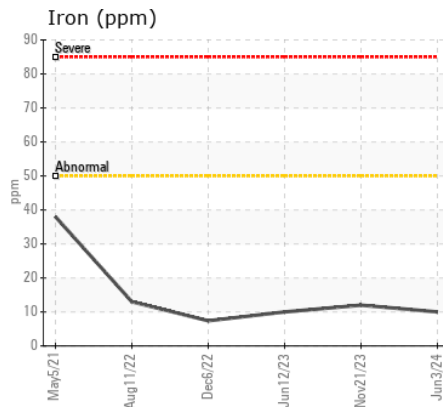
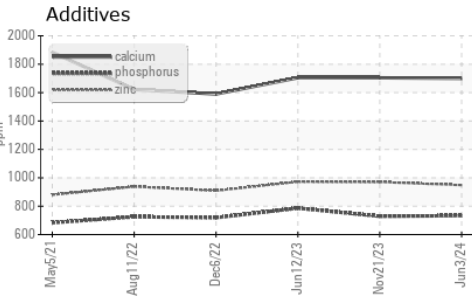
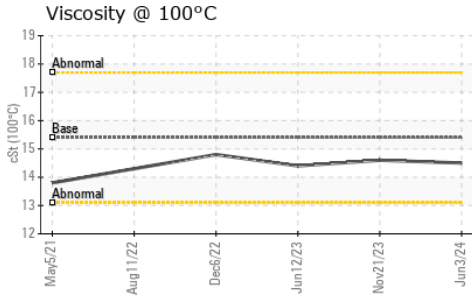
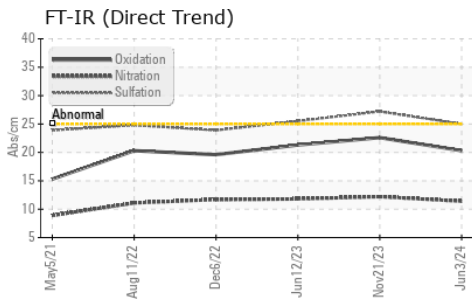
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>+100	2	4	3
Potassium	ppm	ASTM D5185(m)	>20	<1	0	0
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	ASTM D7844*		0	0	0
Nitration	Abs/cm	ASTM D7624*	>20	11.4	12.2	11.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.0	27.2	25.5
Emulsified Water	scalar	Visual*	>0.1	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)		3	2	2
Boron	ppm	ASTM D5185(m)	0	10	6	6
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	54	55	56
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	566	603	593
Calcium	ppm	ASTM D5185(m)	1070	1700	1704	1705
Phosphorus	ppm	ASTM D5185(m)	1150	733	729	786
Zinc	ppm	ASTM D5185(m)	1270	948	970	972
Sulfur	ppm	ASTM D5185(m)	2060	2041	2035	2182
Oxidation	Abs/.1mm	ASTM D7414*	>25	20.3	22.6	21.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	14.5	14.6	14.4



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0100775
Lab Number : 02640105
Unique Number : 5789267
Test Package : MOB 1
Received : 06 Jun 2024
Tested : 06 Jun 2024
Diagnosed : 06 Jun 2024 - Kevin Marson

GFL Environmental - 277 - Niagara Regional
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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.