



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
424008
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0113155	GFL0082177	GFL0046764
Sample Date		Client Info		16 May 2024	24 Jul 2023	29 Jun 2022
Machine Age	hrs	Client Info		621481	36788	35386
Oil Age	hrs	Client Info		0	0	1366
Filter Age	hrs	Client Info		0	0	1366
Oil Changed		Client Info		Changed	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	15	27	23
Chromium	ppm	ASTM D5185(m)	>20	<1	1	1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	3	3
Lead	ppm	ASTM D5185(m)	>40	<1	4	5
Copper	ppm	ASTM D5185(m)	>330	2	6	8
Tin	ppm	ASTM D5185(m)	>15	0	<1	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

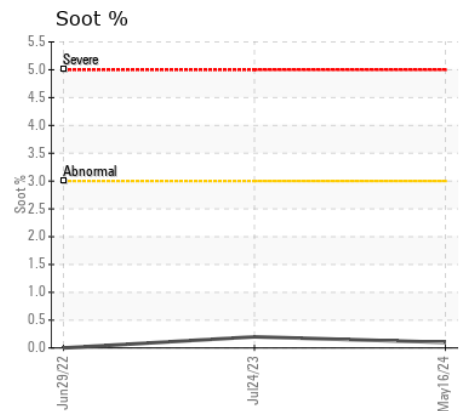
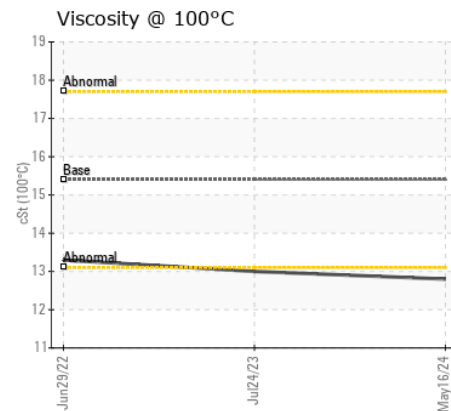
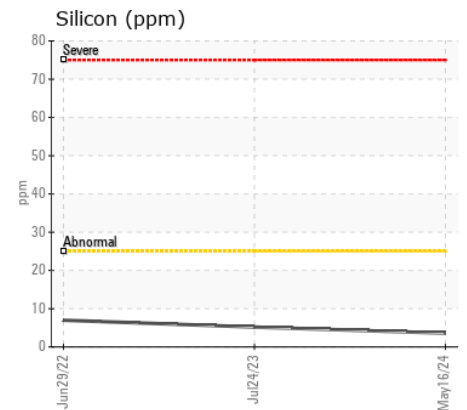
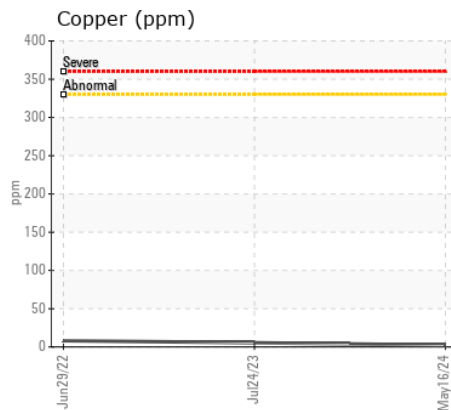
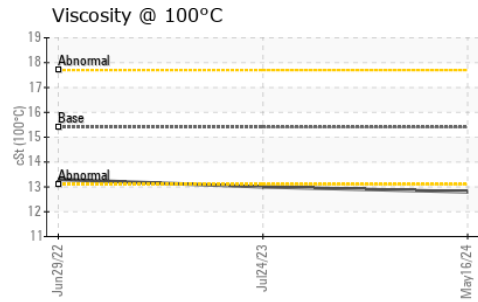
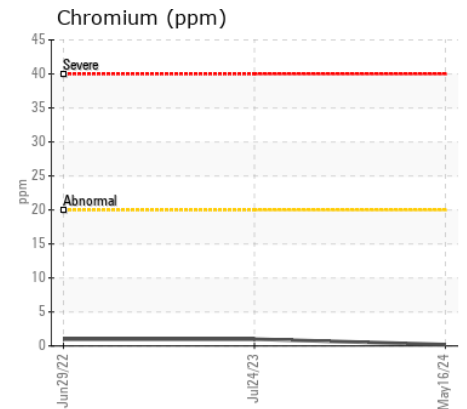
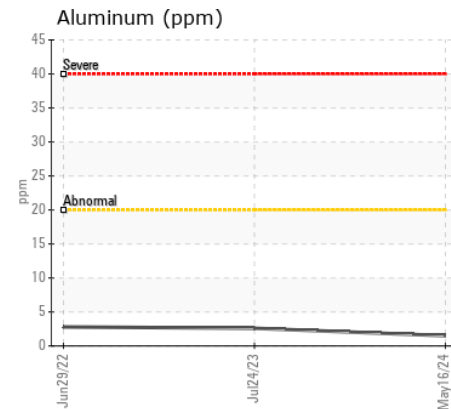
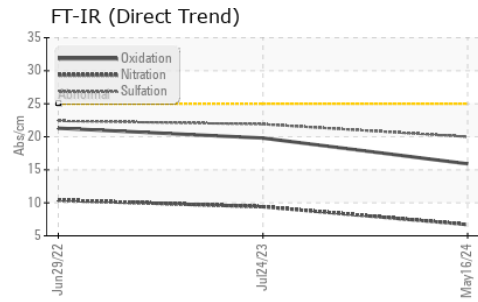
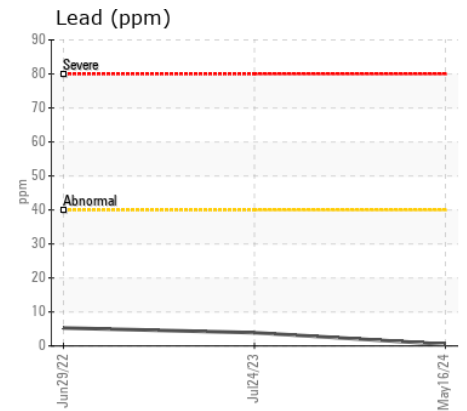
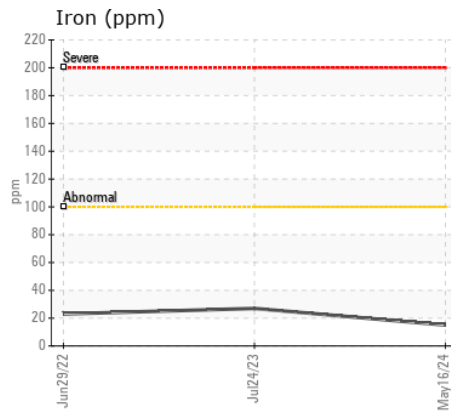
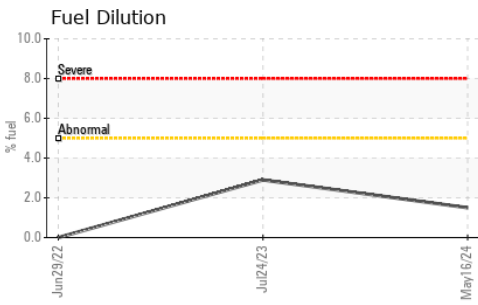
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>25	4	5	7
Potassium	ppm	ASTM D5185(m)	>20	1	0	<1
Fuel	%	ASTM D7593*	>5	1.5	▲ 2.9	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.1	0.2	0
Nitration	Abs/cm	ASTM D7624*	>20	6.7	9.4	10.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.0	21.9	22.4
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)		3	2	3
Boron	ppm	ASTM D5185(m)	0	3	3	7
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	59	56	52
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	936	924	890
Calcium	ppm	ASTM D5185(m)	1070	1045	970	1102
Phosphorus	ppm	ASTM D5185(m)	1150	960	997	973
Zinc	ppm	ASTM D5185(m)	1270	1148	1122	1119
Sulfur	ppm	ASTM D5185(m)	2060	2443	2347	2351
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.9	19.8	21.3
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	12.8	▲ 13.0	13.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0113155 **Received** : 27 May 2024
Lab Number : 02637597 **Tested** : 28 May 2024
Unique Number : 5786759 **Diagnosed** : 28 May 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FUELDILUTION, PercentFuel)

GFL Environmental - 582 - Nanaimo
 3469 Aqua Terra Rd.,
 Cassidy, BC
 CA V0R 1H0
 Contact: GFL Tech
 wcgfldemo@gmail.com

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.

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