



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
5595
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112576	GFL0102638	GFL0097591
Sample Date		Client Info		05 Apr 2024	12 Jan 2024	24 Oct 2023
Machine Age	hrs	Client Info		7075	6994	6797
Oil Age	hrs	Client Info		0	0	450
Filter Age	hrs	Client Info		0	0	450
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	42	11	94
Chromium	ppm	ASTM D5185(m)	>5	2	<1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	2
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	1	2	2
Lead	ppm	ASTM D5185(m)	>30	<1	<1	2
Copper	ppm	ASTM D5185(m)	>150	3	2	4
Tin	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

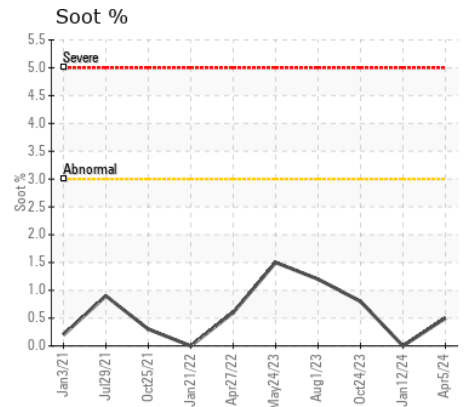
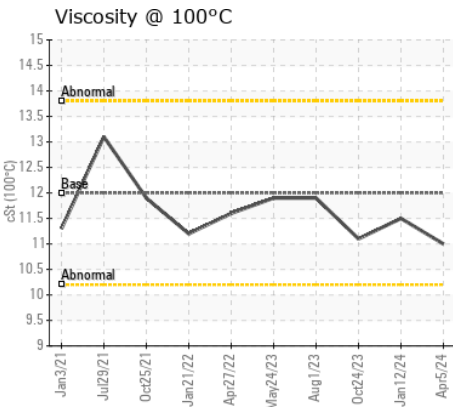
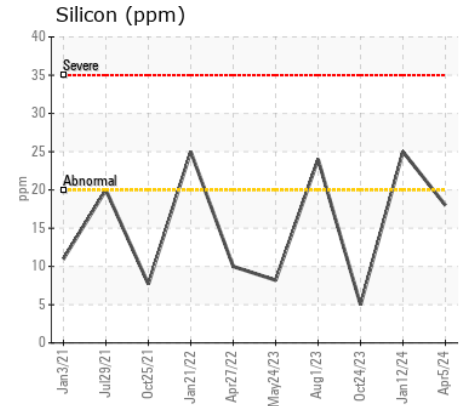
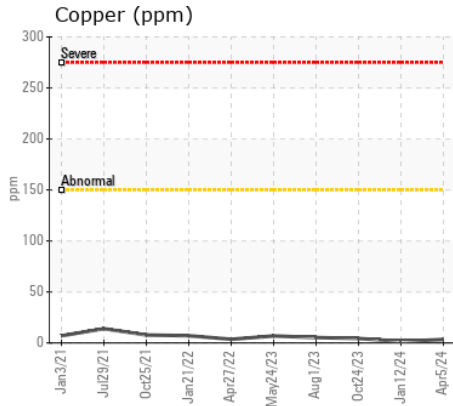
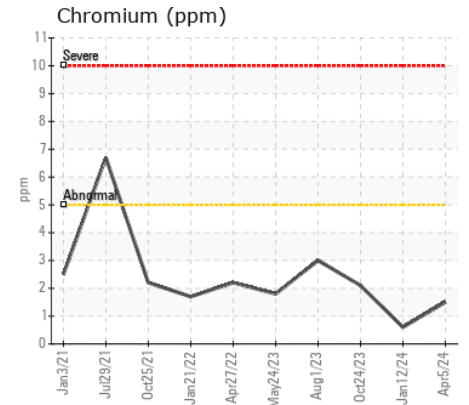
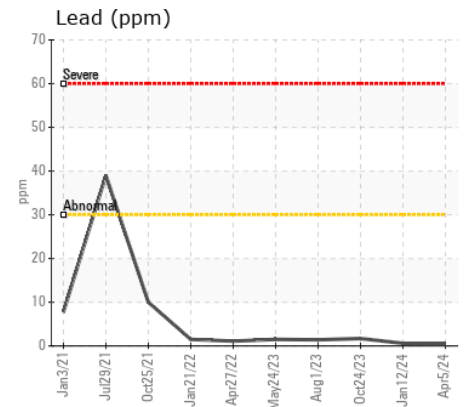
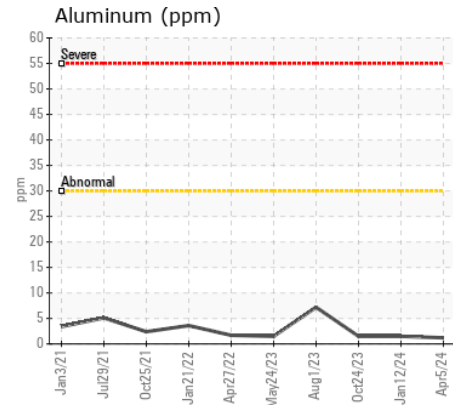
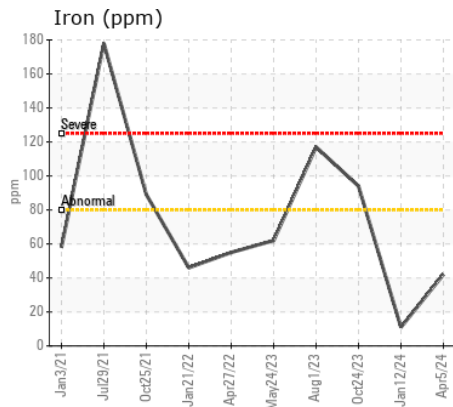
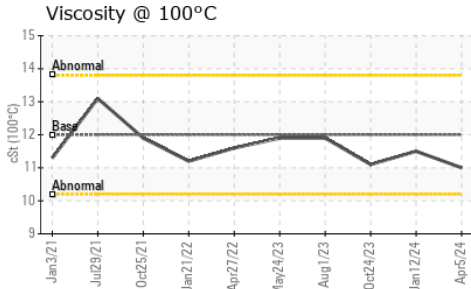
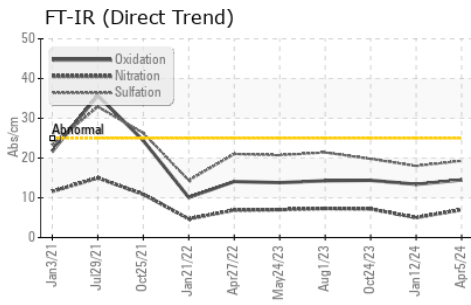
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	18	▲ 25	5
Potassium	ppm	ASTM D5185(m)	>20	0	2	<1
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.5	0	0.8
Nitration	Abs/cm	ASTM D7624*	>20	7.0	5.0	7.2
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	18.0	19.8
Silt	scalar	Visual*	NONE	NONE	---	---
Debris	scalar	Visual*	NONE	VLITE	---	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
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	3	2
Boron	ppm	ASTM D5185(m)	2	8	6	6
Barium	ppm	ASTM D5185(m)	0	<1	9	0
Molybdenum	ppm	ASTM D5185(m)	50	57	57	62
Manganese	ppm	ASTM D5185(m)	0	<1	0	<1
Magnesium	ppm	ASTM D5185(m)	950	913	914	977
Calcium	ppm	ASTM D5185(m)	1050	1053	1059	1221
Phosphorus	ppm	ASTM D5185(m)	995	931	972	1047
Zinc	ppm	ASTM D5185(m)	1180	1105	1115	1260
Sulfur	ppm	ASTM D5185(m)	2600	2425	2718	2644
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.5	13.4	14.4
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.0	11.5	11.1



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112576
Lab Number : 02629879
Unique Number : 5763011
Test Package : MOB 1 (Additional Tests: Visual)

GFL Environmental - 554 - Edmonton SW
 8409 -15th Street NW
 Edmonton, AB
 CA T6P 0B8
 Contact: Tim Greig
 tgreig@gflenv.com
 T: (780)231-0521
 F:

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.