



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
4531
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 10W30 (--- LTR)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0112528	GFL0119006	GFL0102635
Sample Date		Client Info		30 May 2024	23 May 2024	04 Jan 2024
Machine Age	kms	Client Info		209578	24393	23913
Oil Age	kms	Client Info		0	0	0
Filter Age	kms	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				NORMAL	ABNORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>110	6	31	4
Chromium	ppm	ASTM D5185(m)	>4	<1	▲ 4	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	<1	3	2
Lead	ppm	ASTM D5185(m)	>45	0	4	<1
Copper	ppm	ASTM D5185(m)	>85	13	▲ 90	1
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

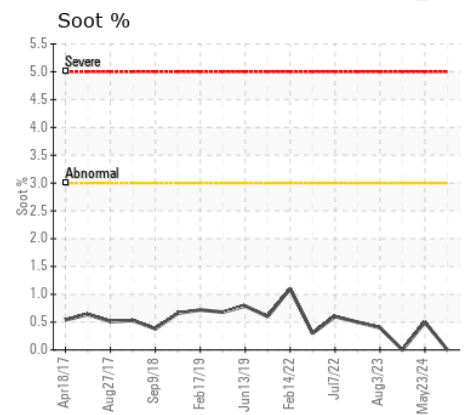
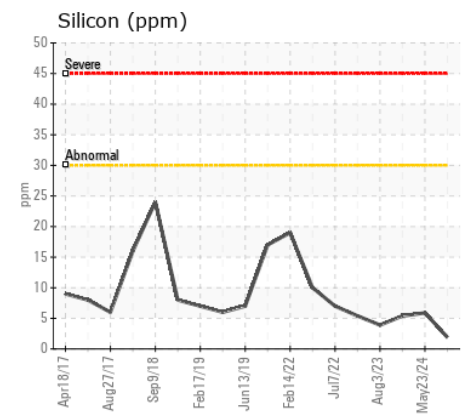
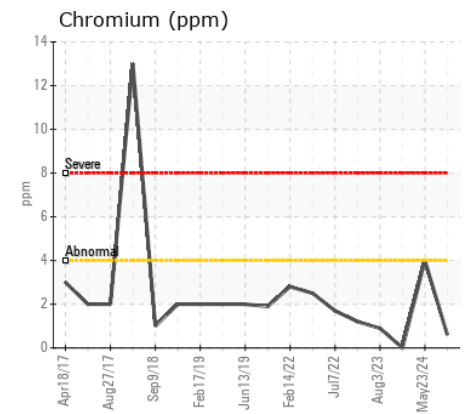
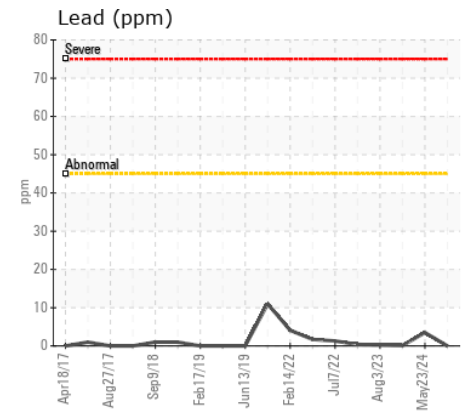
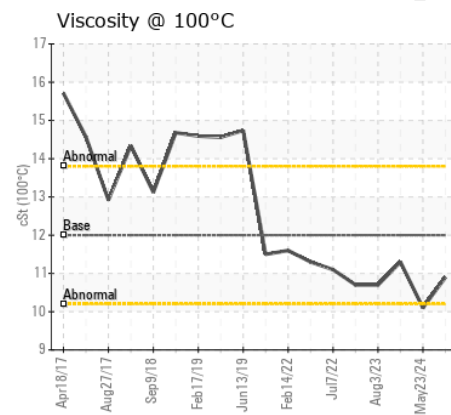
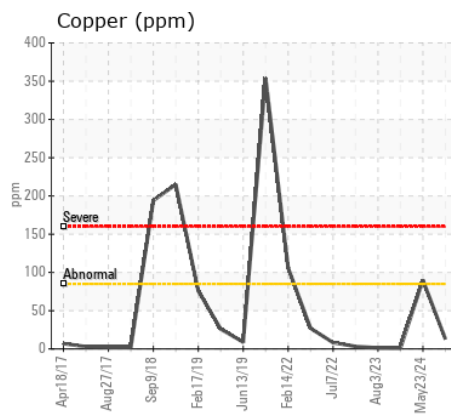
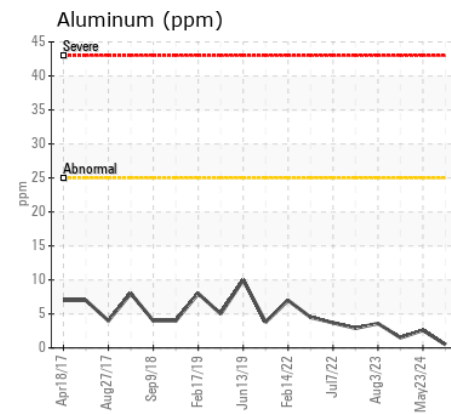
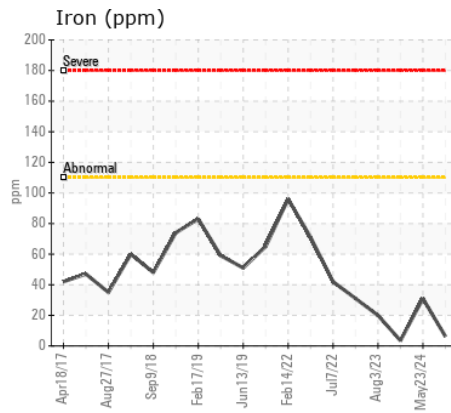
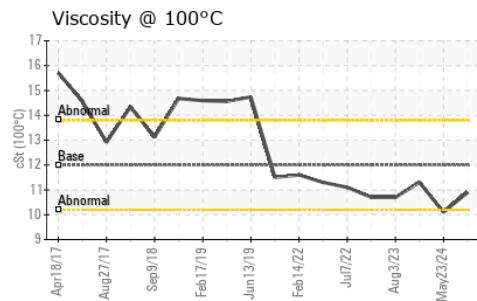
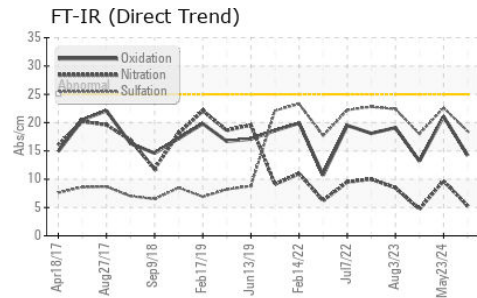
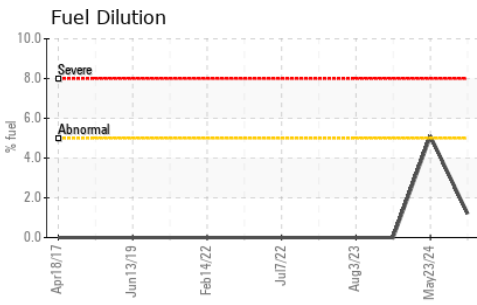
Light fuel dilution occurring. No other contaminants were detected in the oil.

Silicon	ppm	ASTM D5185(m)	>30	2	6	5
Potassium	ppm	ASTM D5185(m)	>20	2	15	4
Fuel	%	ASTM D7593*	>5	1.2	▲ 5.1	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	0.0	NEG
Soot %	%	ASTM D7844*	>3	0	0.5	0
Nitration	Abs/cm	ASTM D7624*	>20	5.3	9.7	4.7
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.5	22.6	18.0
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)		42	● 322	68
Boron	ppm	ASTM D5185(m)	2	2	3	2
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	56	67	59
Manganese	ppm	ASTM D5185(m)	0	0	<1	0
Magnesium	ppm	ASTM D5185(m)	950	889	851	931
Calcium	ppm	ASTM D5185(m)	1050	977	947	1001
Phosphorus	ppm	ASTM D5185(m)	995	964	881	991
Zinc	ppm	ASTM D5185(m)	1180	1084	1043	1124
Sulfur	ppm	ASTM D5185(m)	2600	2385	2025	2748
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.2	21.1	13.2
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.9	10.1	11.3



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112528
Lab Number : 02639775
Unique Number : 5788937
Test Package : MOB 1 (Additional Tests: PercentFuel)

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