



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
4790
 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		GFL0102667	GFL0097606	GFL0097641
Sample Date		Client Info		26 Feb 2024	07 Nov 2023	10 Sep 2023
Machine Age	hrs	Client Info		15314	14799	14575
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	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	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>110	47	23	41
Chromium	ppm	ASTM D5185(m)	>4	2	1	2
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	7	3	6
Lead	ppm	ASTM D5185(m)	>45	1	<1	2
Copper	ppm	ASTM D5185(m)	>85	6	8	24
Tin	ppm	ASTM D5185(m)	>4	<1	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

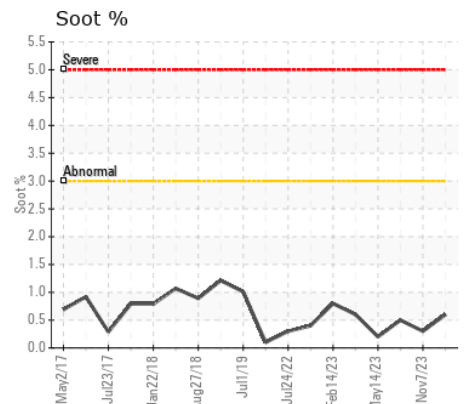
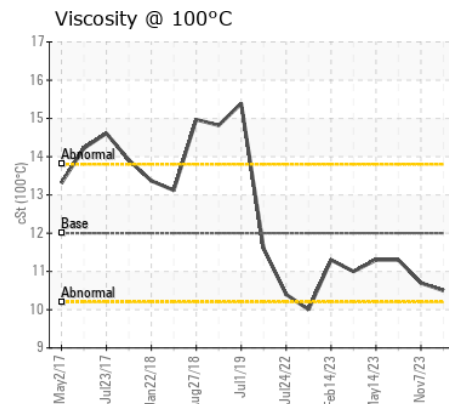
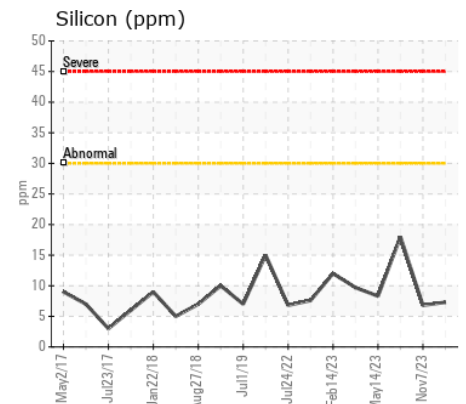
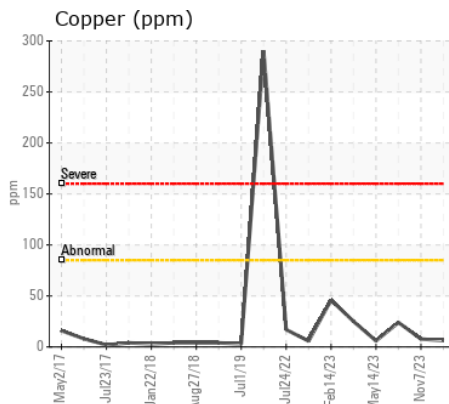
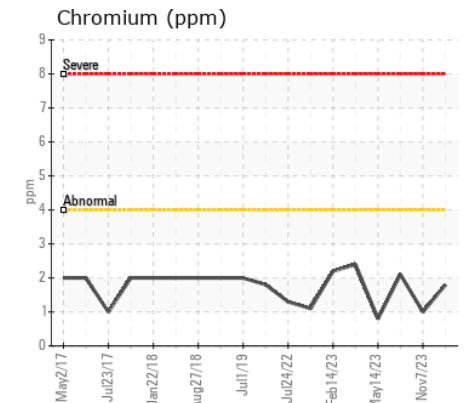
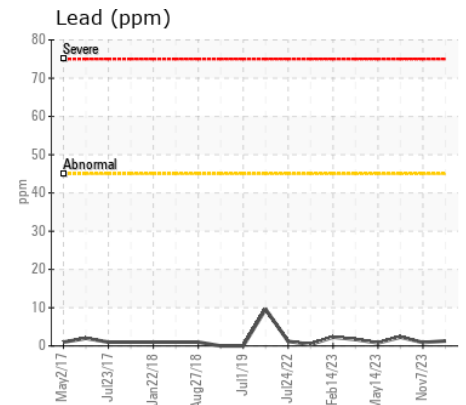
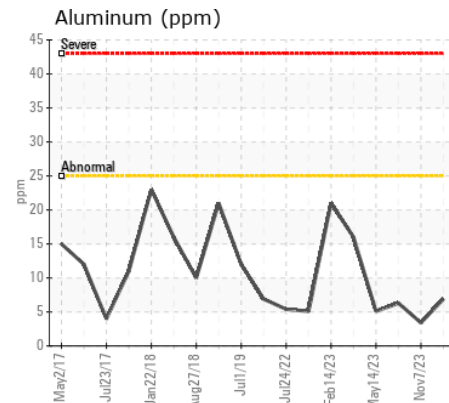
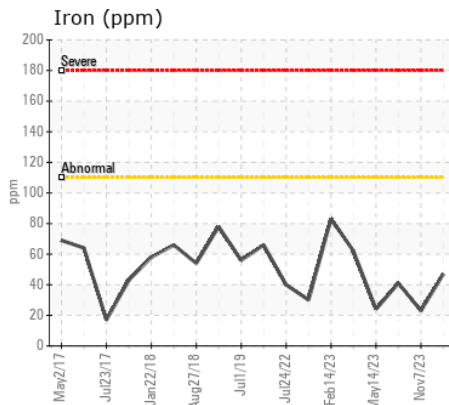
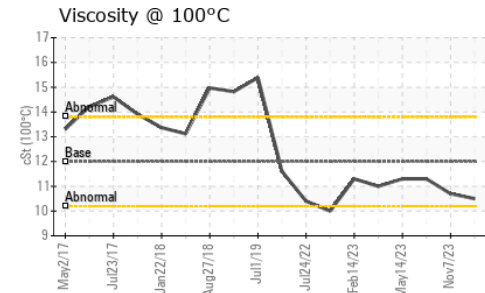
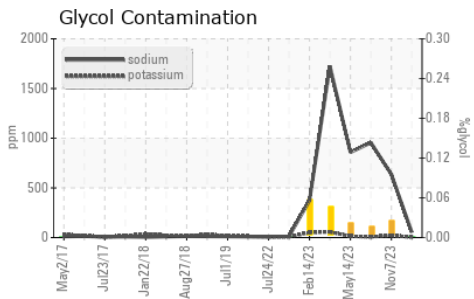
Test for glycol is negative. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	7	7	18
Potassium	ppm	ASTM D5185(m)	>20	5	▲ 20	▲ 7
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol	%	ASTM D7922*		0.0	▲ 0.026	▲ 0.016
Soot %	%	ASTM D7844*	>3	0.6	0.3	0.5
Nitration	Abs/cm	ASTM D7624*	>20	10.3	11.3	13.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.9	21.2	23.9
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)		54	● 636	● 955
Boron	ppm	ASTM D5185(m)	2	7	1	2
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	50	57	87	104
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	950	845	902	879
Calcium	ppm	ASTM D5185(m)	1050	1020	990	994
Phosphorus	ppm	ASTM D5185(m)	995	923	912	773
Zinc	ppm	ASTM D5185(m)	1180	1072	1094	1096
Sulfur	ppm	ASTM D5185(m)	2600	2481	2310	2262
Oxidation	Abs/.1mm	ASTM D7414*	>25	17.3	18.6	23.5
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	10.5	10.7	11.3



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0102667
Lab Number : 02620084
Unique Number : 5737194
Test Package : MOB 1 (Additional Tests: Glycol)

GFL Environmental - 554 - Edmonton SW
 8409 - 15th Street NW
 Edmonton, AB
 CA T6P 0B8
 Contact: Tim Greig
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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.