



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
413154
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		GFL0112567	GFL0102660	GFL0090626
Sample Date		Client Info		06 Apr 2024	24 Feb 2024	14 Aug 2023
Machine Age	hrs	Client Info		1959	1655	583
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	10	21	29
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	1	3	4
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>20	1	3	8
Lead	ppm	ASTM D5185(m)	>40	<1	4	9
Copper	ppm	ASTM D5185(m)	>330	32	172	386
Tin	ppm	ASTM D5185(m)	>15	0	<1	3
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

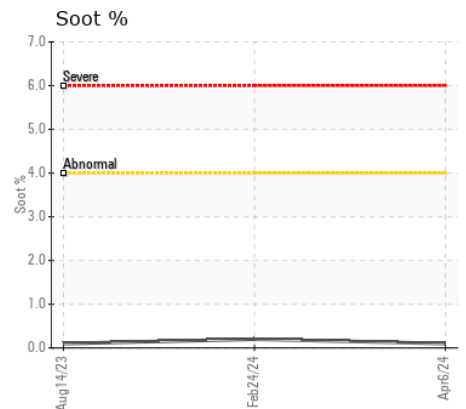
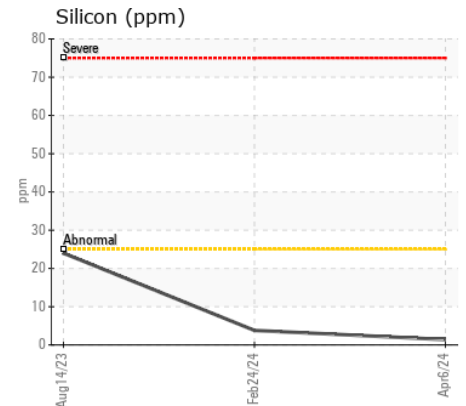
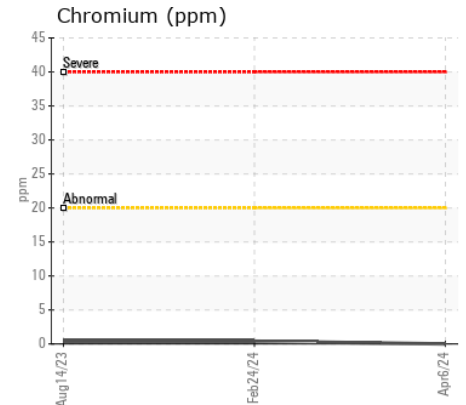
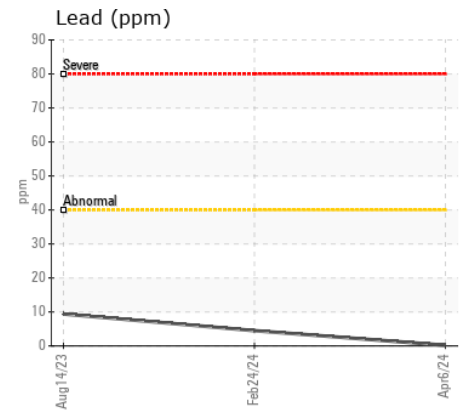
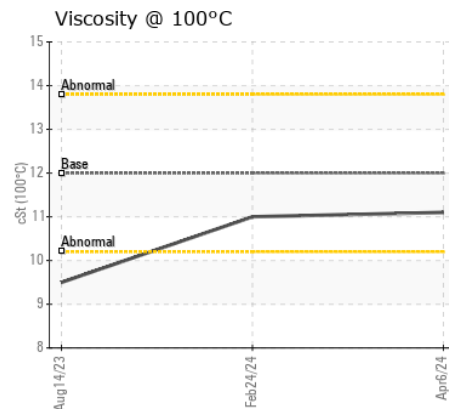
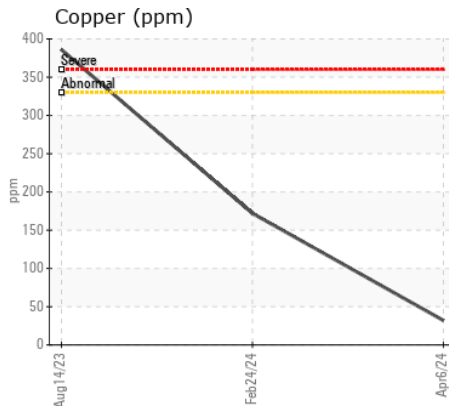
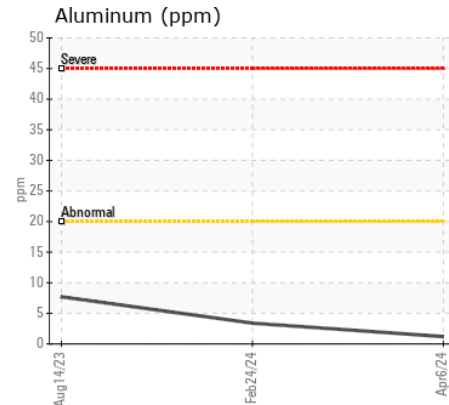
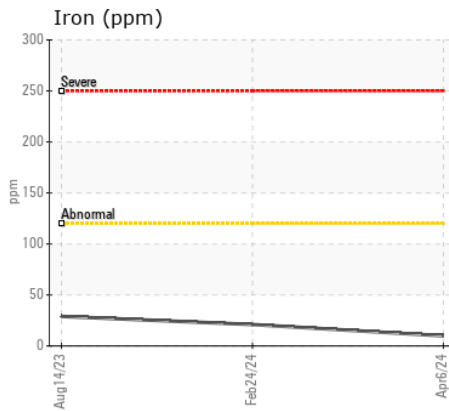
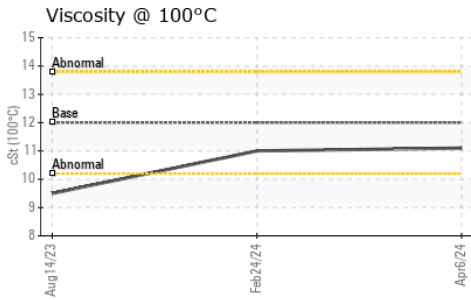
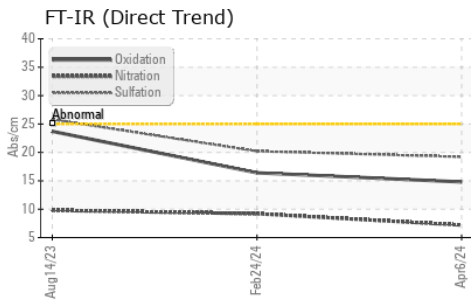
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	1	4	24
Potassium	ppm	ASTM D5185(m)	>20	1	7	14
Fuel		WC Method	>3.0	<1.0	<1.0	1.1
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	0.0
Soot %	%	ASTM D7844*	>4	0.1	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	7.2	9.2	9.8
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.2	20.2	25.8
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)		1	1	3
Boron	ppm	ASTM D5185(m)	2	2	4	226
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	50	58	61	121
Manganese	ppm	ASTM D5185(m)	0	<1	<1	3
Magnesium	ppm	ASTM D5185(m)	950	958	953	719
Calcium	ppm	ASTM D5185(m)	1050	1013	1044	1407
Phosphorus	ppm	ASTM D5185(m)	995	982	999	754
Zinc	ppm	ASTM D5185(m)	1180	1135	1143	815
Sulfur	ppm	ASTM D5185(m)	2600	2501	2417	2334
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.8	16.4	23.7
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.1	11.0	9.5



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112567
Lab Number : 02629876
Unique Number : 5763008
Test Package : MOB 1
Received : 18 Apr 2024
Tested : 18 Apr 2024
Diagnosed : 18 Apr 2024 - Wes Davis

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.