



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
213032
 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		GFL0112558	GFL0102618	GFL0101718
Sample Date		Client Info		15 Apr 2024	07 Mar 2024	20 Nov 2023
Machine Age	hrs	Client Info		1061	889	392
Oil Age	hrs	Client Info		0	497	392
Filter Age	hrs	Client Info		0	497	392
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>80	12	30	75
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>30	2	4	8
Lead	ppm	ASTM D5185(m)	>30	0	0	2
Copper	ppm	ASTM D5185(m)	>150	2	14	65
Tin	ppm	ASTM D5185(m)	>5	0	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

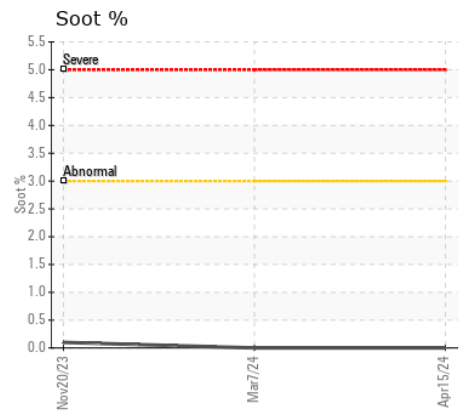
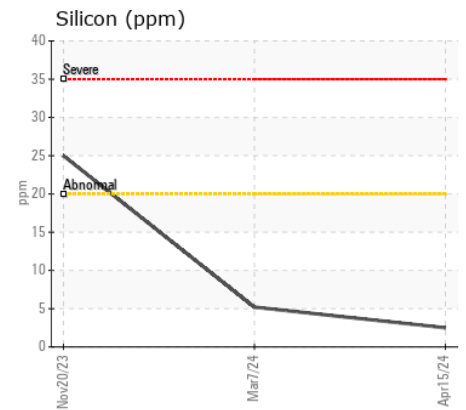
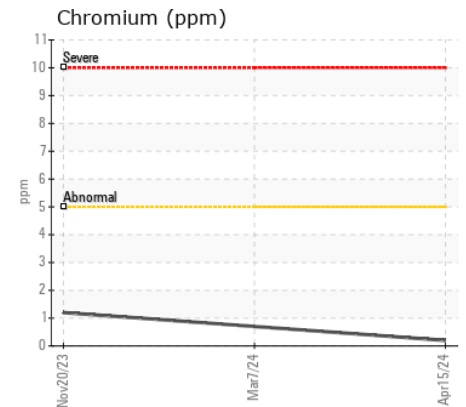
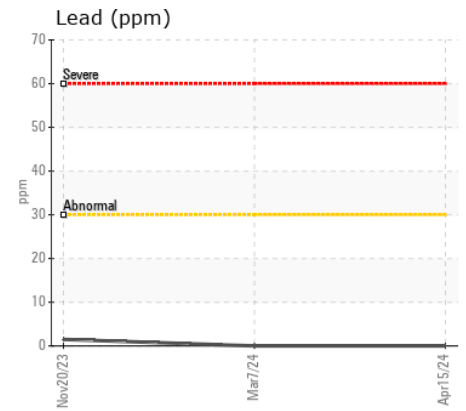
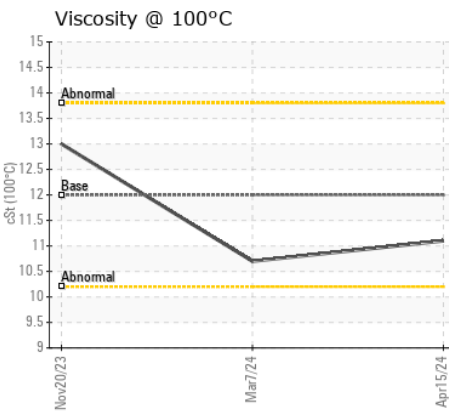
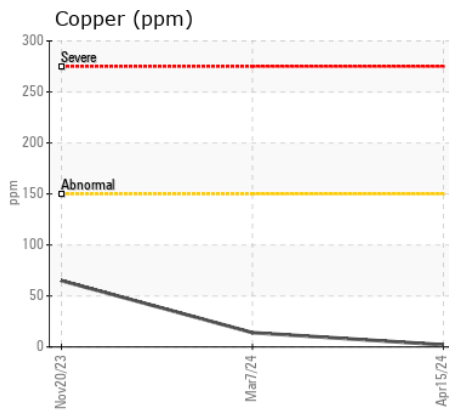
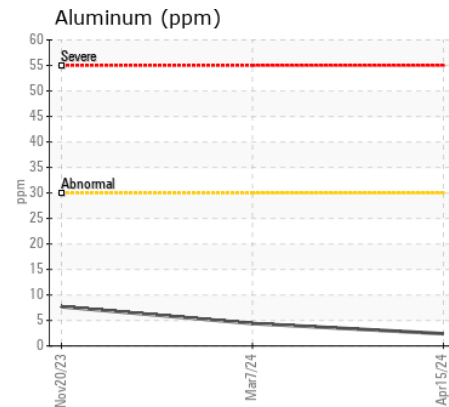
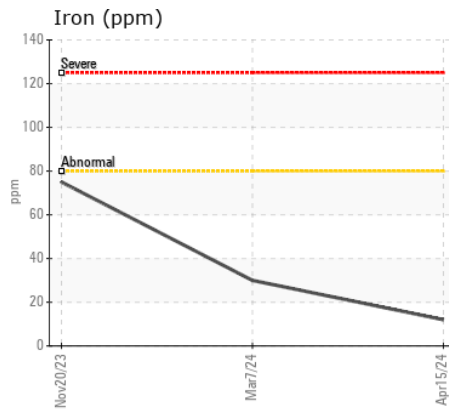
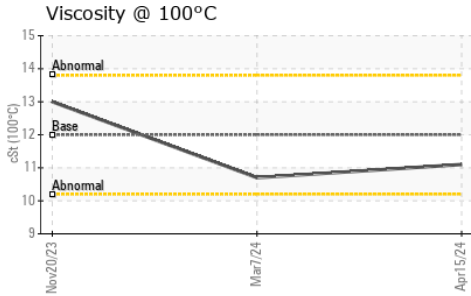
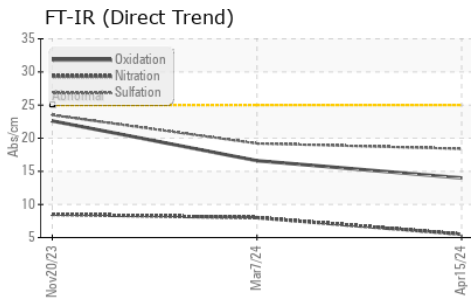
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	2	5	25
Potassium	ppm	ASTM D5185(m)	>20	2	6	8
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	0	0.1
Nitration	Abs/cm	ASTM D7624*	>20	5.5	8.0	8.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	18.4	19.2	23.5
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	6
Boron	ppm	ASTM D5185(m)	2	5	8	52
Barium	ppm	ASTM D5185(m)	0	0	<1	8
Molybdenum	ppm	ASTM D5185(m)	50	58	57	44
Manganese	ppm	ASTM D5185(m)	0	<1	0	5
Magnesium	ppm	ASTM D5185(m)	950	948	918	560
Calcium	ppm	ASTM D5185(m)	1050	1046	1078	1626
Phosphorus	ppm	ASTM D5185(m)	995	983	922	717
Zinc	ppm	ASTM D5185(m)	1180	1152	1122	892
Sulfur	ppm	ASTM D5185(m)	2600	2516	2260	1933
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.0	16.6	22.6
Visc @ 100°C	cSt	ASTM D7279(m)	12.00	11.1	10.7	13.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0112558
Lab Number : 02631565
Unique Number : 5772718
Test Package : MOB 1

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 Edmonton, AB
 CA T6P 0B8
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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.