



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
4504
 Component
Diesel Engine
 Fluid
PETRO CANADA DURON SHP 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0100321	GFL0064990	GFL0064964
Sample Date		Client Info		27 Dec 2023	17 Aug 2023	02 Mar 2023
Machine Age	hrs	Client Info		4081	3468	2722
Oil Age	hrs	Client Info		437	569	0
Filter Age	hrs	Client Info		437	569	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	29	77	37
Chromium	ppm	ASTM D5185(m)	>20	1	3	2
Nickel	ppm	ASTM D5185(m)	>4	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	4	3
Lead	ppm	ASTM D5185(m)	>40	1	4	3
Copper	ppm	ASTM D5185(m)	>330	2	8	2
Tin	ppm	ASTM D5185(m)	>15	<1	2	2
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

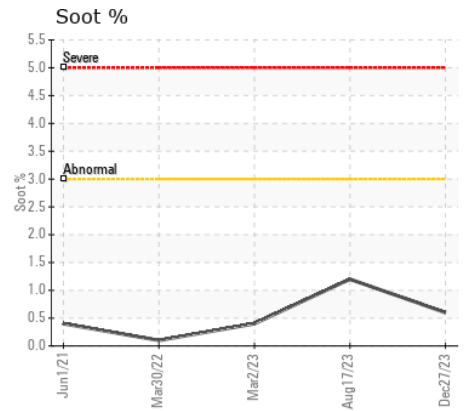
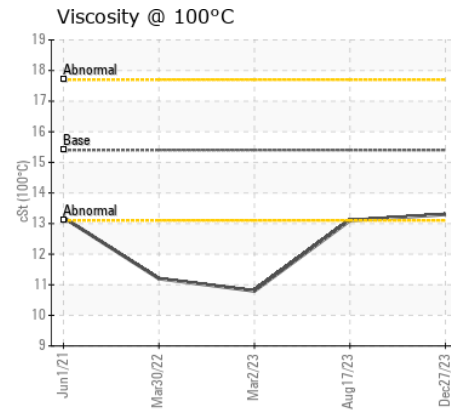
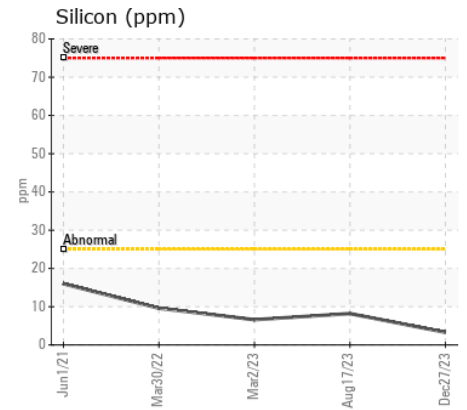
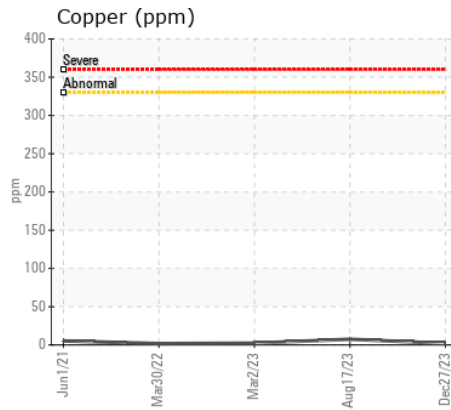
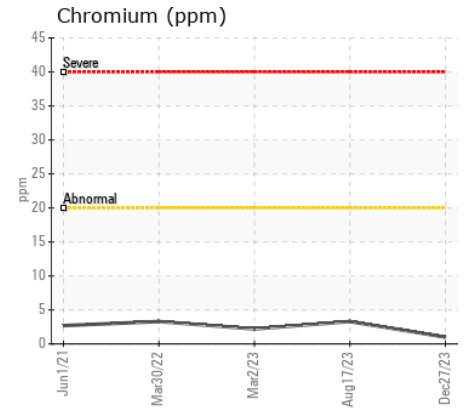
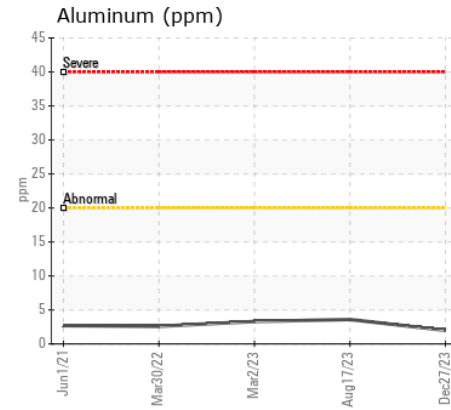
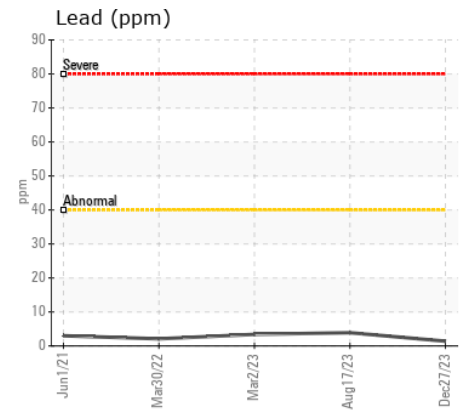
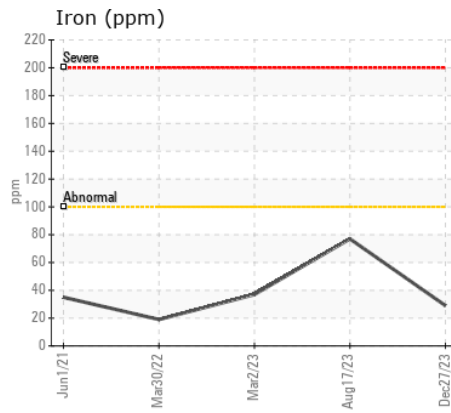
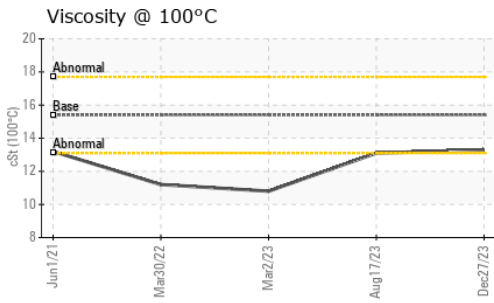
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	3	8	7
Potassium	ppm	ASTM D5185(m)	>20	3	6	4
Fuel		WC Method	>5	<1.0	<1.0	0.7
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>3	0.6	1.2	0.4
Nitration	Abs/cm	ASTM D7624*	>20	6.4	8.8	7.6
Sulfation	Abs/.1mm	ASTM D7415*	>30	19.3	22.3	21.2
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)	0	1	3	1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	58	58	60
Manganese	ppm	ASTM D5185(m)	0	0	1	<1
Magnesium	ppm	ASTM D5185(m)	1010	954	963	957
Calcium	ppm	ASTM D5185(m)	1070	1058	1089	1122
Phosphorus	ppm	ASTM D5185(m)	1150	998	1054	1115
Zinc	ppm	ASTM D5185(m)	1270	1178	1191	1207
Sulfur	ppm	ASTM D5185(m)	2060	2682	2601	2732
Oxidation	Abs/.1mm	ASTM D7414*	>25	14.0	15.8	15.0
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.3	13.1	▲ 10.8



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 556 - Whitecourt
Sample No. : GFL0100321 **Received** : 02 Jan 2024 4138 - 42 Street,
Lab Number : 02605777 **Diagnosed** : 02 Jan 2024 Whitecourt, AB
Unique Number : 5698862 **Diagnostician** : Wes Davis CA T7S 1P1
Test Package : MOB 1

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.

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