



Area
(.)
Machine Id
927065
Component
Diesel Engine
Fluid
PETRO CANADA DURON SHP 15W40 (35 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0117909	GFL0111753	GFL0094183
Sample Date		Client Info		09 Apr 2024	12 Feb 2024	25 Oct 2023
Machine Age	hrs	Client Info		18074	77633	14050
Oil Age	hrs	Client Info		600	0	0
Filter Age	hrs	Client Info		600	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	N/A
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>120	11	16	15
Chromium	ppm	ASTM D5185(m)	>20	0	<1	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	4	2
Lead	ppm	ASTM D5185(m)	>40	0	1	2
Copper	ppm	ASTM D5185(m)	>330	1	3	1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0

CONTAMINATION

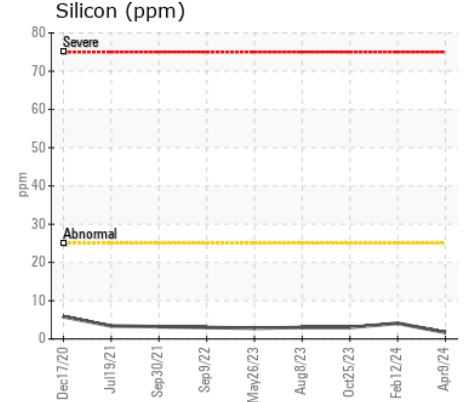
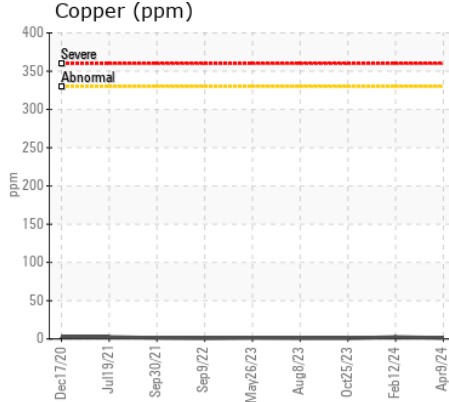
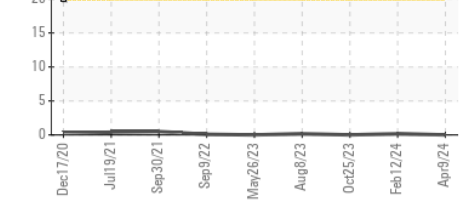
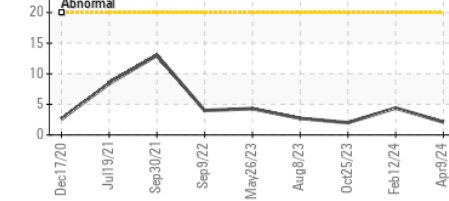
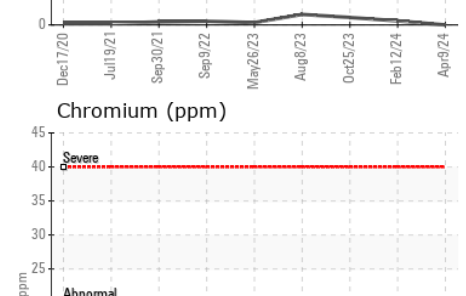
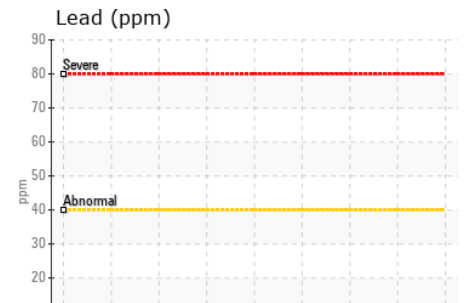
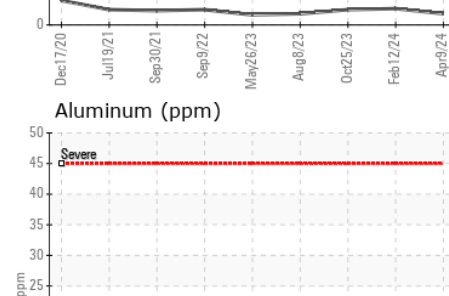
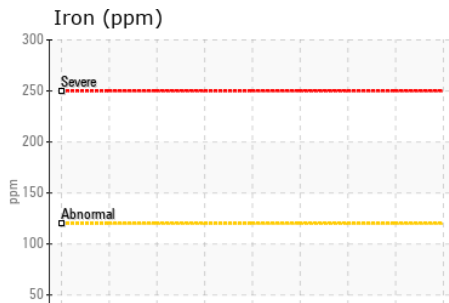
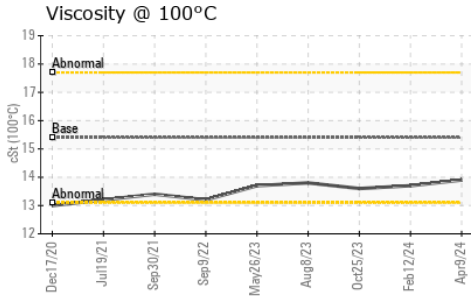
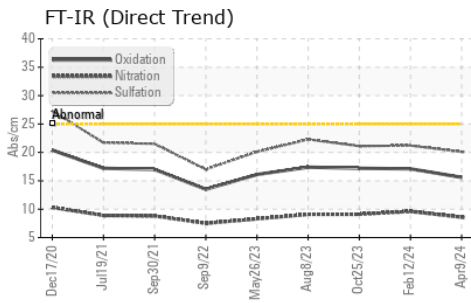
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	2	4	3
Potassium	ppm	ASTM D5185(m)	>20	<1	2	<1
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
Soot %	%	ASTM D7844*	>4	0.4	0.5	0.7
Nitration	Abs/cm	ASTM D7624*	>20	8.6	9.6	9.1
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.1	21.2	21.1
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	2	5
Boron	ppm	ASTM D5185(m)	0	6	14	5
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	59	63	60
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	939	928	943
Calcium	ppm	ASTM D5185(m)	1070	1054	1111	1068
Phosphorus	ppm	ASTM D5185(m)	1150	980	1022	935
Zinc	ppm	ASTM D5185(m)	1270	1174	1210	1170
Sulfur	ppm	ASTM D5185(m)	2060	2433	2666	2336
Oxidation	Abs/.1mm	ASTM D7414*	>25	15.6	17.1	17.2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	13.9	13.7	13.6



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0117909
Lab Number : 02628074
Unique Number : 5761206
Test Package : MOB 1
Received : 11 Apr 2024
Tested : 11 Apr 2024
Diagnosed : 11 Apr 2024 - Wes Davis

GFL Environmental - 217 - Aurora
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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.