

Area
(UA22468)
 Machine Id
2647C
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (7 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0023772	GFL0060108	GFL0060123
Sample Date		Client Info		18 Jan 2024	08 Nov 2023	22 Dec 2022
Machine Age	hrs	Client Info		11846	11846	11846
Oil Age	hrs	Client Info		700	11846	14299
Filter Age	hrs	Client Info		0	0	1186
Oil Changed		Client Info		N/A	N/A	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	17	8	9
Chromium	ppm	ASTM D5185m	>4	3	1	1
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	3	3	2
Lead	ppm	ASTM D5185m	>30	0	5	13
Copper	ppm	ASTM D5185m	>35	16	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

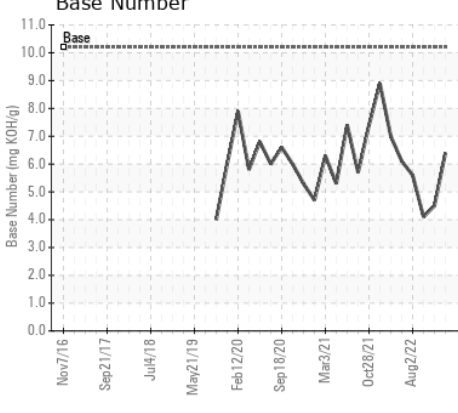
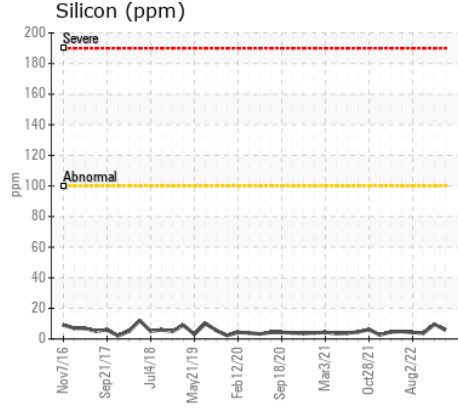
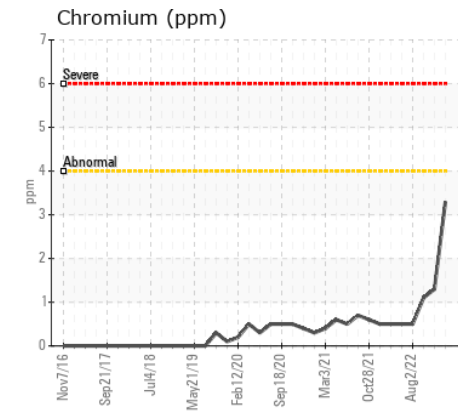
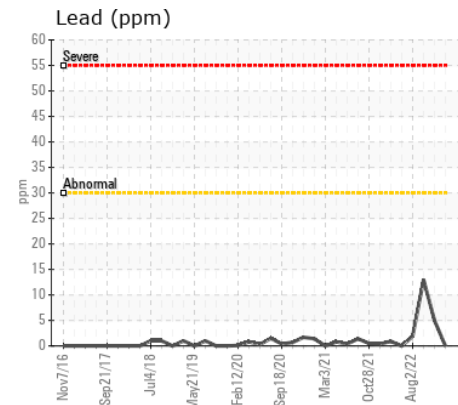
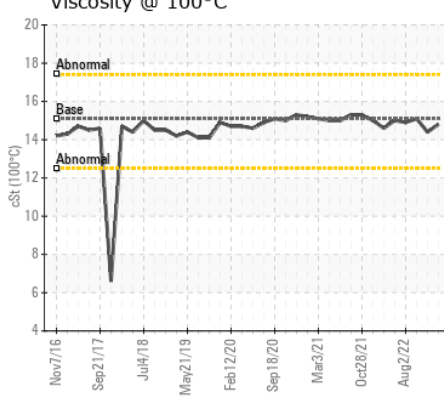
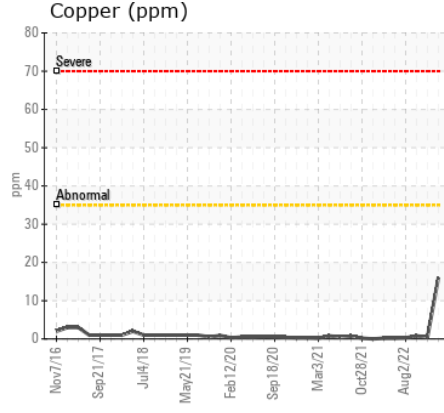
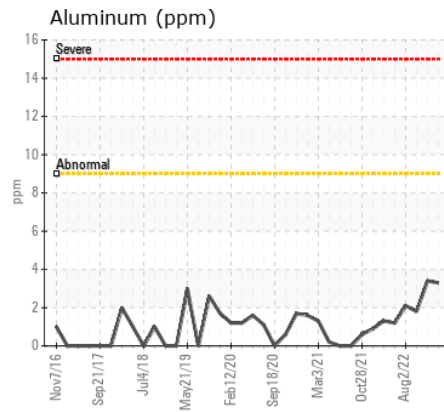
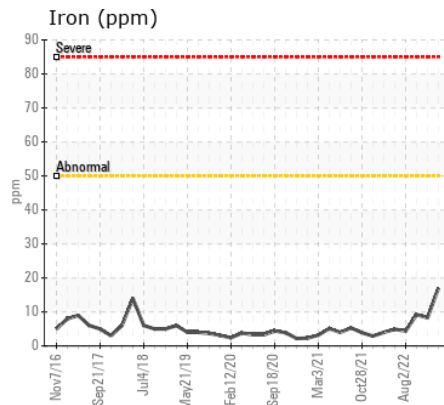
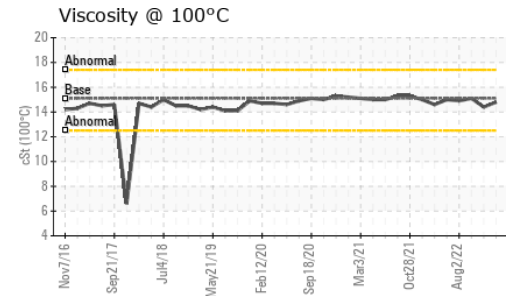
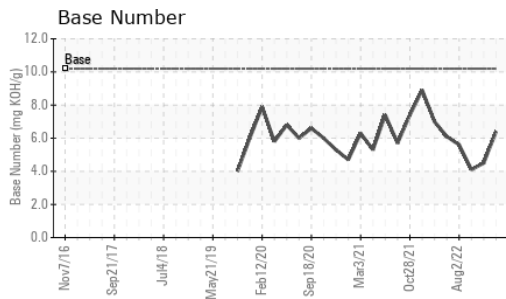
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	6	10	4
Potassium	ppm	ASTM D5185m	>20	<1	1	4
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.1	0.1
Nitration	Abs/cm	*ASTM D7624	>20	10.1	11.0	14.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.4	24.9	30.6
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		5	4	7
Boron	ppm	ASTM D5185m	50	15	9	13
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	53	65	63
Manganese	ppm	ASTM D5185m	0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	560	642	837	641
Calcium	ppm	ASTM D5185m	1510	1652	1501	1976
Phosphorus	ppm	ASTM D5185m	780	853	967	820
Zinc	ppm	ASTM D5185m	870	1066	1232	1078
Sulfur	ppm	ASTM D5185m	2040	2739	2645	3255
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.4	20.0	28.0
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.4	4.5	4.1
Visc @ 100°C	cSt	ASTM D445	15.1	14.8	14.4	15.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0023772 **Received** : 19 Jan 2024
Lab Number : 06065389 **Diagnosed** : 22 Jan 2024
Unique Number : 10836771 **Diagnostician** : Wes Davis
Test Package : MOB1+

GFL Environmental - 045 - Tidewater
 3821 Cook Blvd.
 Chesapeake, VA
 US 23323
 Contact: ELVIN RODRIGUEZ
 elvinrodriguez@gflenv.com
 T:
 F:

Certificate L2367
 To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)