



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
433005
 Component
Natural Gas Engine
 Fluid
PETRO CANADA DURON GEO LD 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0124129	GFL0120194	GFL0120150
Sample Date		Client Info		02 Jul 2024	12 Jun 2024	28 May 2024
Machine Age	hrs	Client Info		3461	3294	3167
Oil Age	hrs	Client Info		0	1200	0
Filter Age	hrs	Client Info		0	1200	0
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	1	13	▲ 56
Chromium	ppm	ASTM D5185m	>4	0	<1	2
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	2	6	3
Lead	ppm	ASTM D5185m	>30	<1	12	0
Copper	ppm	ASTM D5185m	>35	0	4	0
Tin	ppm	ASTM D5185m	>4	0	2	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

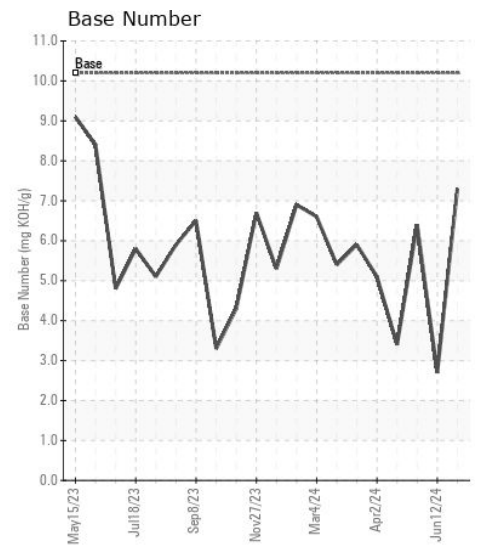
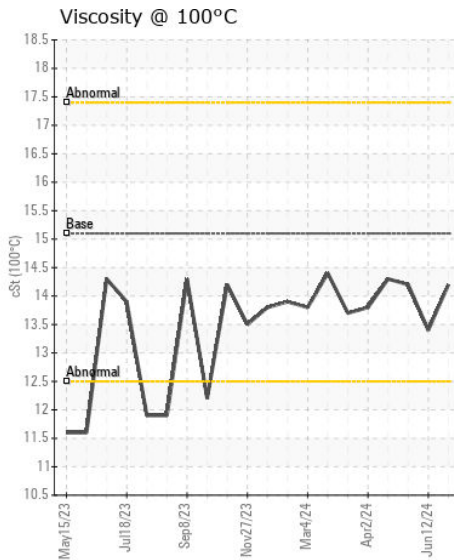
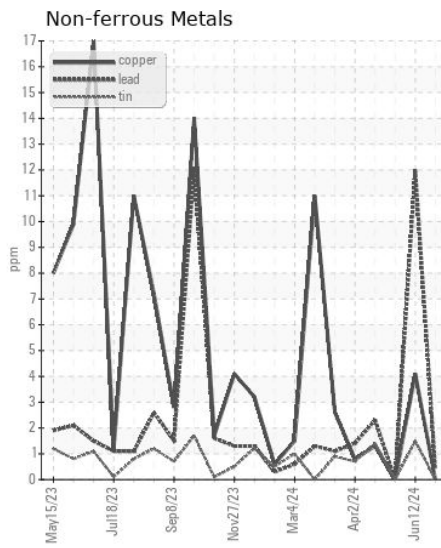
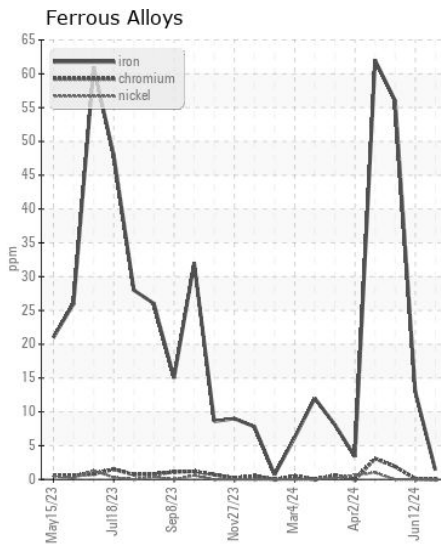
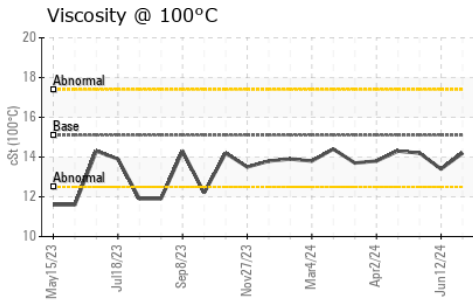
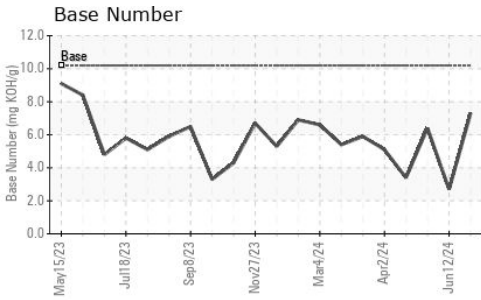
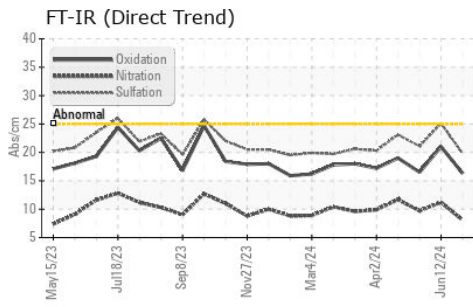
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	5	10	15
Potassium	ppm	ASTM D5185m	>20	1	<1	0
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0	0.3
Nitration	Abs/cm	*ASTM D7624	>20	8.1	11.2	9.7
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8	25.1	21.1
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		4	9	6
Boron	ppm	ASTM D5185m	50	24	10	37
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	45	51	51
Manganese	ppm	ASTM D5185m	0	<1	1	<1
Magnesium	ppm	ASTM D5185m	560	585	525	580
Calcium	ppm	ASTM D5185m	1510	1535	1594	1533
Phosphorus	ppm	ASTM D5185m	780	805	732	817
Zinc	ppm	ASTM D5185m	870	976	927	945
Sulfur	ppm	ASTM D5185m	2040	2924	2721	2724
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.3	21.0	16.5
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.3	2.7	6.4
Visc @ 100°C	cSt	ASTM D445	15.1	14.2	13.4	14.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0124129
Lab Number : 06228306
Unique Number : 11111799
Test Package : FLEET

Received : 05 Jul 2024
Tested : 08 Jul 2024
Diagnosed : 08 Jul 2024 - Wes Davis

GFL Environmental - 836 - Kansas City Hauling
 7801 East Truman Road
 Kansas City, MO
 US 64126
 Contact: Loyce Stewart
 loyce.stewart@gflenv.com

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)

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F: