



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(YA113967)
Machine Id
3444C
Component
Natural Gas Engine
Fluid
PETRO CANADA DURON GEO LD 15W40 (29 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0125786	GFL0079630	GFL0098138
Sample Date		Client Info		02 Jul 2024	05 Jun 2024	17 Jan 2024
Machine Age	hrs	Client Info		15510	15510	15510
Oil Age	hrs	Client Info		120	630	443
Filter Age	hrs	Client Info		0	0	443
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	5	9	3
Chromium	ppm	ASTM D5185m	>4	<1	<1	0
Nickel	ppm	ASTM D5185m	>2	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>3	<1	0	0
Aluminum	ppm	ASTM D5185m	>9	4	4	<1
Lead	ppm	ASTM D5185m	>30	<1	<1	0
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

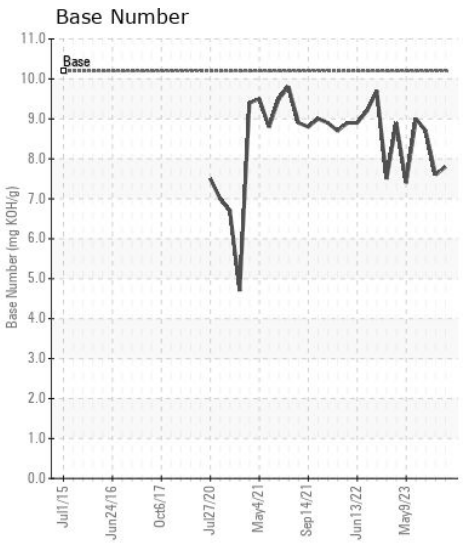
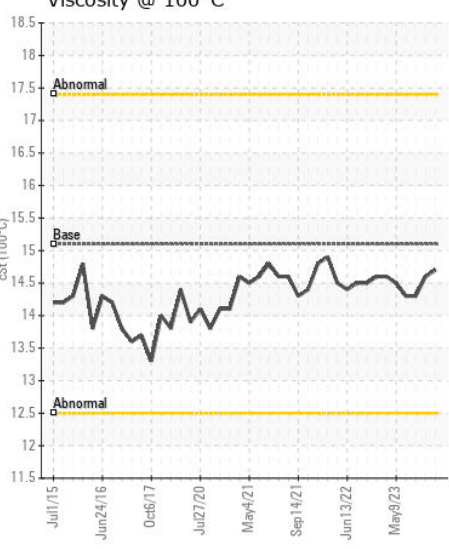
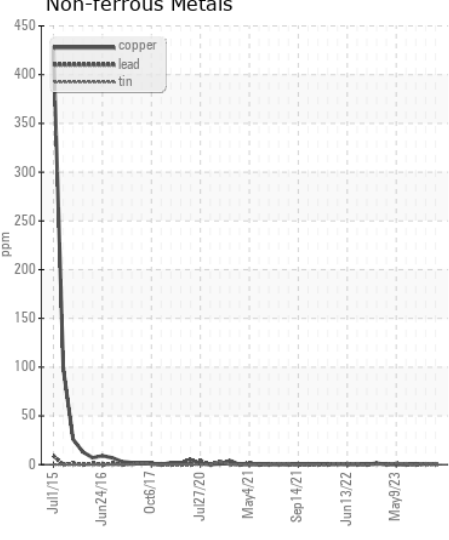
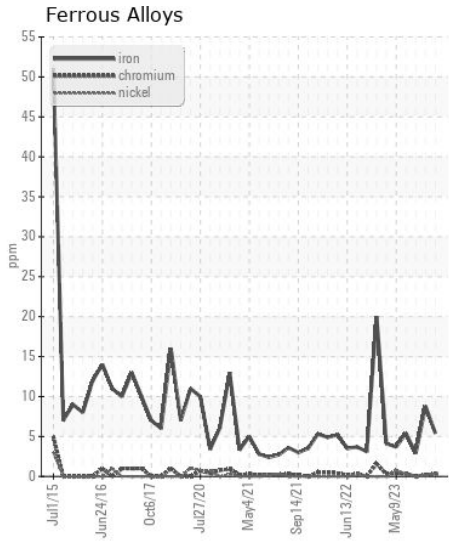
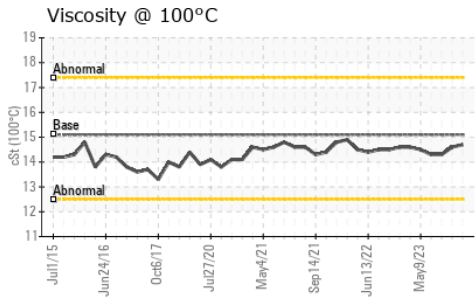
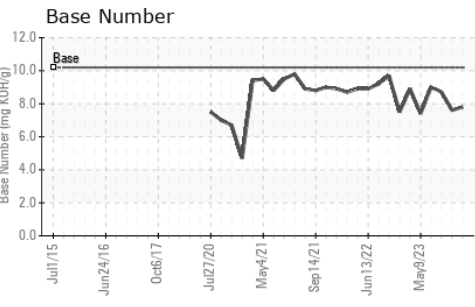
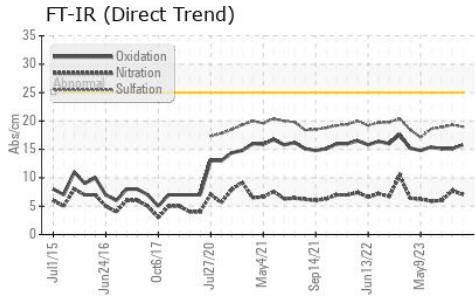
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	4	7	15
Potassium	ppm	ASTM D5185m	>20	3	9	12
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0	0.3	0
Nitration	Abs/cm	*ASTM D7624	>20	7.1	7.7	6.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.0	19.3	18.9
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		3	<1	4
Boron	ppm	ASTM D5185m	50	31	31	46
Barium	ppm	ASTM D5185m	5	<1	2	0
Molybdenum	ppm	ASTM D5185m	50	48	59	46
Manganese	ppm	ASTM D5185m	0	<1	<1	0
Magnesium	ppm	ASTM D5185m	560	538	588	580
Calcium	ppm	ASTM D5185m	1510	1462	1537	1564
Phosphorus	ppm	ASTM D5185m	780	731	796	815
Zinc	ppm	ASTM D5185m	870	904	977	940
Sulfur	ppm	ASTM D5185m	2040	2193	2739	2736
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	15.1	15.1
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	7.8	7.6	8.7
Visc @ 100°C	cSt	ASTM D445	15.1	14.7	14.6	14.3



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0125786
Lab Number : 06225808
Unique Number : 11109301
Test Package : FLEET

Received : 02 Jul 2024
Tested : 03 Jul 2024
Diagnosed : 03 Jul 2024 - Wes Davis

GFL Environmental - 017 - Durham
 148 Stone Park Court
 Durham, NC
 US 27703
 Contact:
 bill.waring@wearcheck.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)

T: (919)596-1363
 F: (919)598-1852