



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area

(P662031)

Machine Id

10892C

Component

Natural Gas Engine

Fluid

PETRO CANADA DURON GEO LD 15W40 (11 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		GFL0109575	GFL0110378	GFL0096913
Sample Date		Client Info		30 May 2024	15 Feb 2024	07 Feb 2024
Machine Age	hrs	Client Info		6451	5650	5580
Oil Age	hrs	Client Info		9961	5650	5580
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	16	12	43
Chromium	ppm	ASTM D5185m	>4	1	1	4
Nickel	ppm	ASTM D5185m	>2	1	1	2
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>3	0	<1	0
Aluminum	ppm	ASTM D5185m	>9	3	3	4
Lead	ppm	ASTM D5185m	>30	10	1	7
Copper	ppm	ASTM D5185m	>35	<1	1	2
Tin	ppm	ASTM D5185m	>4	1	<1	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

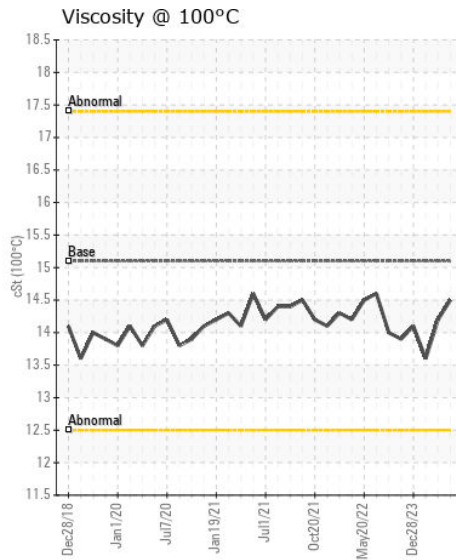
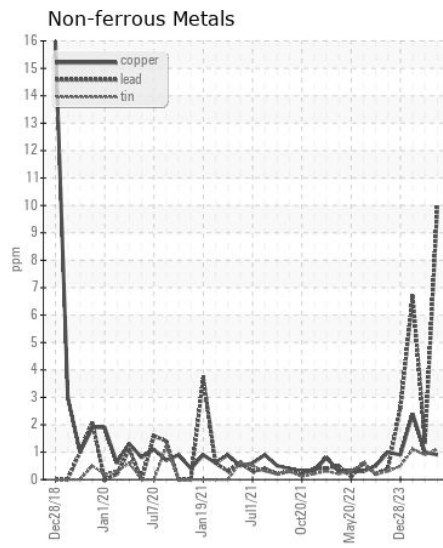
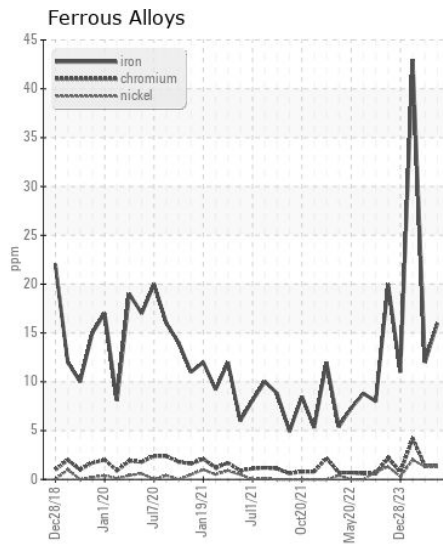
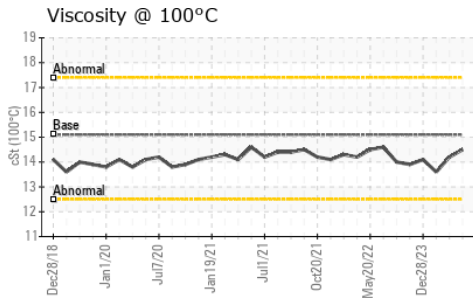
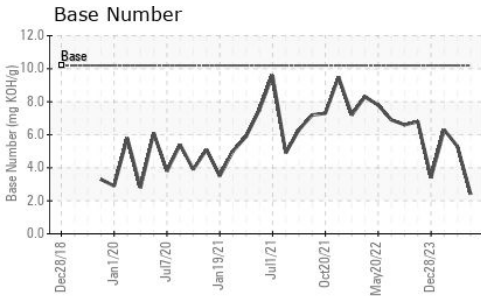
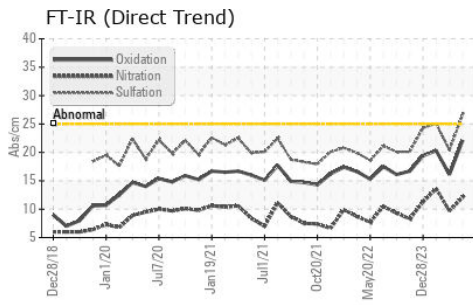
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>+100	9	9	43
Potassium	ppm	ASTM D5185m	>20	2	2	4
Water		WC Method	>0.1	NEG	NEG	NEG
Soot %	%	*ASTM D7844		0.1	0	0.1
Nitration	Abs/cm	*ASTM D7624	>20	12.1	9.7	13.6
Sulfation	Abs/.1mm	*ASTM D7415	>30	26.6	20.4	25.1
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	▲ MODER
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		9	8	8
Boron	ppm	ASTM D5185m	50	7	23	10
Barium	ppm	ASTM D5185m	5	0	0	2
Molybdenum	ppm	ASTM D5185m	50	64	83	73
Manganese	ppm	ASTM D5185m	0	<1	1	2
Magnesium	ppm	ASTM D5185m	560	681	898	749
Calcium	ppm	ASTM D5185m	1510	1672	2156	1750
Phosphorus	ppm	ASTM D5185m	780	903	1009	922
Zinc	ppm	ASTM D5185m	870	1103	1437	1206
Sulfur	ppm	ASTM D5185m	2040	2759	3849	2595
Oxidation	Abs/.1mm	*ASTM D7414	>25	22.1	16.1	20.3
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	2.4	5.3	6.3
Visc @ 100°C	cSt	ASTM D445	15.1	14.5	14.2	13.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : GFL0109575
Lab Number : 06197359
Unique Number : 11059482
Test Package : FLEET

Received : 03 Jun 2024
Tested : 04 Jun 2024
Diagnosed : 04 Jun 2024 - Wes Davis

GFL Environmental - 031 - Greenville/Spartanburg
 1635 Antioch Church Rd
 Piedmont, SC
 US 29673

Contact: TECHNICIAN ACCOUNT
 catherine.anastasio@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)

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F: