

Machine Id **10751C** Component

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend

### NORMAL





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Natural Gas Engine Fluid PETRO CANADA DURON GEO LD 15W40 (29 QTS)						
DIAGNOSIS	SAMPLE INFOR	MATION	method			
Recommendation	Sample Number		Client Info			
Resample at the next service interval to monitor.	Sample Date		Client Info			
Wear	Machine Age	hrs	Client Info			

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

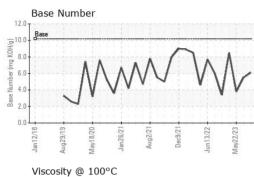
#### Fluid Condition

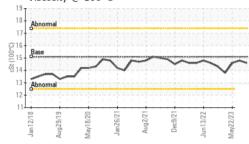
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sample Number		Client Info		GFL0098106	GFL0088546	GFL0083333
Sample Date		Client Info		01 Nov 2023	22 Aug 2023	22 May 2023
Machine Age	hrs	Client Info		5684	5684	5684
Oil Age	hrs	Client Info		438	443	563
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	13	13	14
Chromium	ppm	ASTM D5185m	>4	1	2	1
Nickel	ppm	ASTM D5185m	>2	<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	1	0
Lead	ppm	ASTM D5185m	>30	<1	<1	<1
Copper	ppm	ASTM D5185m	>35	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	13	4	3
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	50	54	54	53
Manganese	ppm	ASTM D5185m	0	0	<1	<1
Magnesium	ppm	ASTM D5185m	560	561	574	539
Calcium	ppm	ASTM D5185m	1510	1549	1521	1725
Phosphorus	ppm	ASTM D5185m	780	685	726	647
Zinc	ppm	ASTM D5185m	870	958	985	983
Sulfur	ppm	ASTM D5185m	2040	2677	2569	2577
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+100	4	5	5
Sodium	ppm	ASTM D5185m		4	10	14
Potassium	ppm	ASTM D5185m	>20	11	10	10
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844		0	0	0
Nitration	Abs/cm	*ASTM D7624	>20	9.8	10.1	11.2
Sulfation	Abs/.1mm	*ASTM D7415	>30	19.7	19.8	22.5
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	16.6	18.8
Base Number (BN)	mg KOH/g	ASTM D2896	10.2	6.1	5.5	3.8
	0 - 0			-		



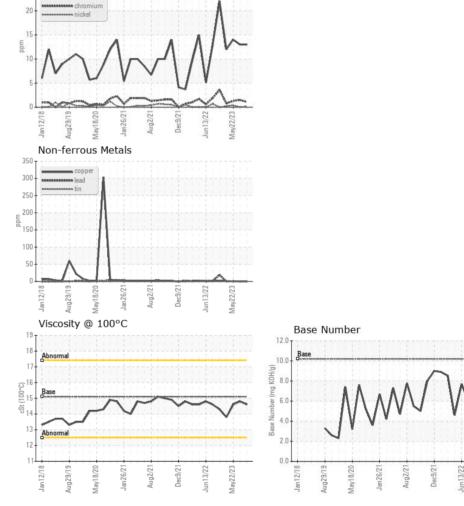
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPE	RTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.1	14.6	14.8	14.6
GRAPHS						
Ferrous Alloys						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 GFL Environmental - 017 - Durham Sample No. : GFL0098106 Received : 02 Nov 2023 148 Stone Park Court Lab Number : 05997285 Diagnosed : 03 Nov 2023 : 10725645 Unique Number Diagnostician : Wes Davis Test Package : FLEET Contact: Shane Parks Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. shane.parks@gflenv.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (919)596-1363 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (919)598-1852

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Submitted By: Shane Parks

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