

## Machine Id **10377C** Component **Natural Gas Engine** Fluid **PETRO CANADA DURON GEO LD 15W40 (30 QTS)**

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		GFL0123393	GFL0082411	GFL0082475
	Sample Date		Client Info		18 Jun 2024	18 Oct 2023	26 Sep 2023
	Machine Age	hrs	Client Info		80011	80011	1512
	Oil Age	hrs	Client Info		80011	80011	803
	Filter Age	hrs	Client Info		80011	600	503
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	SEVERE	NORMAL
WEAR	Iron	nom	ASTM D5185m	<u>\</u> 50	31	▲ 1552	14
WEAN	Chromium	ppm	ASTM D5185m		2	3	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		2 <1	1	<1
		ppm		>2	<1	1	
	Titanium Silver	ppm	ASTM D5185m	0			0
		ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		3	▲ 43	2
	Lead	ppm	ASTM D5185m		14	▲ 87 ▲ 40	<1
	Copper Tin	ppm	ASTM D5185m		4	<u>▲</u> 40	<1
		ppm	ASTM D5185m	>4	0	▲ 4	0
	Vanadium	ppm	ASTM D5185m		<1 NONE	<1 NONE	
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>+100	4	19	4
	Potassium	ppm	ASTM D5185m	>20	4	<b>1</b> 52	2
There is no indication of any contamination in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0	0.1	0
	Nitration	Abs/cm	*ASTM D7624	>20	11.6	7.0	8.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.1	54.7	18.1
	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	Sodium	ppm	ASTM D5185m		9	17	5
	Boron	ppm	ASTM D5185m	50	3	38	24
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		54	<1	51
	Manganese	ppm	ASTM D5185m		<1	10	<1
	Magnesium	ppm	ASTM D5185m		567	<b>1</b> 7	529
	Calcium	ppm	ASTM D5185m		1832	60	1493
	Phosphorus	ppm	ASTM D5185m		764	269	769
	Zinc	ppm	ASTM D5185m		1034	163	953
	Sulfur	ppm	ASTM D5185m		2937	201	2573
	Oxidation	Abs/.1mm	*ASTM D7414		20.7	68.8	15.5
				-			

Base Number (BN) mg KOH/g ASTM D2896 10.2

ASTM D445 15.1

Visc @ 100°C cSt

2.9

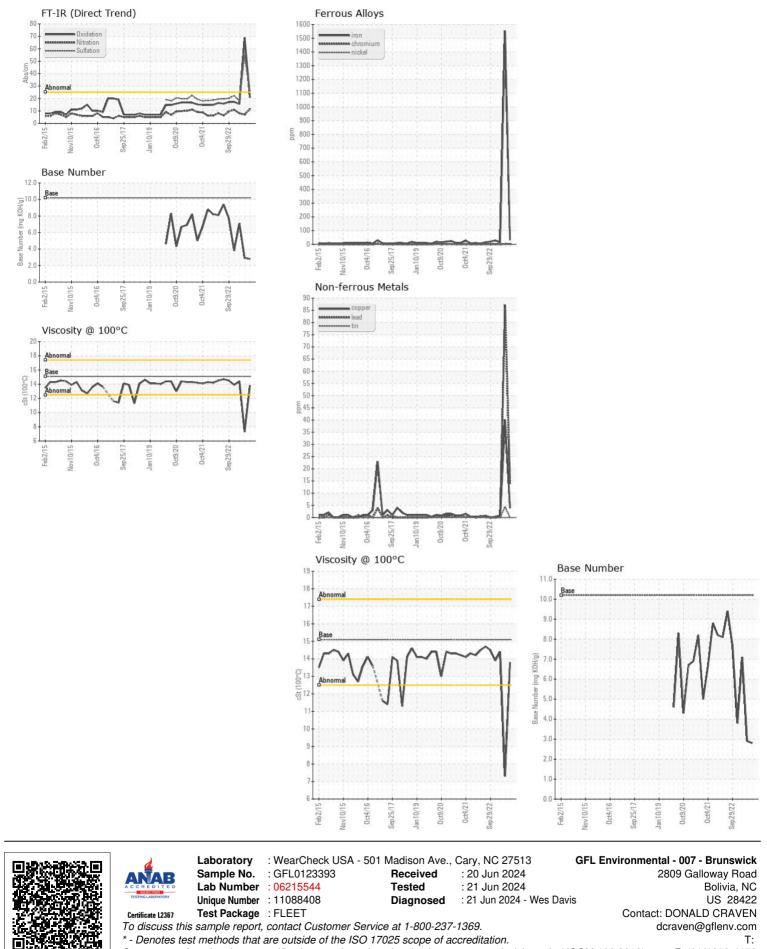
7.3

7.1

14.4

2.8

13.8



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (910)253-4179