

Machine Id 729063 Componer **Diesel Engine** PETRO CANADA DURON GEO LD 15W40 (--- LTR)

	····/						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		GFL0119117	GFL0106994	GFL0094245
Check for low coolant level. We advise that you check for the source of	Sample Date		Client Info		19 Jun 2024	01 Mar 2024	25 Nov 2023
the coolant leak. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Machine Age	hrs	Client Info		24921	20699	20173
	Oil Age	hrs	Client Info		24921	0	0
	Filter Age	hrs	Client Info		24921	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				SEVERE	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	12	18	2
	Chromium	ppm	ASTM D5185m		<1	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	3	<1	1
	Lead	ppm	ASTM D5185m	>40	0	0	0
	Copper	ppm	ASTM D5185m	>330	11	0	<1
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	0				•	0	0
CONTAMINATION	Silicon	ppm	ASTM D5185m		8	2	2
Sodium and/or potassium levels are high. Test for glycol is positive.	Potassium Fuel	ppm	ASTM D5185m		A 1059	6	2<1.0
	Water		WC Method		<1.0 NEG	<1.0 NEG	<1.0 NEG
	Glycol	%	WC Method *ASTM D2982	>0.2	▲ 0.20	NEG	NEG
	Soot %	%	*ASTM D2902	<u>\</u> 2	0.20	1.5	0
	Nitration	Abs/cm	*ASTM D7624	>20	12.6	10.1	8.4
	Sulfation	Abs/.1mm	*ASTM D7415		19.4	20.9	18.8
	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	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium		ASTM D5185m		1176	17	5
FLUID CONDITION	Boron	ppm ppm	ASTM D5185m	50	2	2	23
The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.	Barium	ppm	ASTM D5185m		0	1	0
	Molybdenum	ppm	ASTM D5185m		123	57	46
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		852	880	550
	Calcium	ppm	ASTM D5185m		1039	1016	1411
	Phosphorus	ppm	ASTM D5185m		983	998	752
	Zinc	ppm	ASTM D5185m		1193	1194	913
	Sulfur	ppm	ASTM D5185m		2896	2671	2324
	A 1 1 11		****			10 -	10.0

Oxidation

Visc @ 100°C cSt

16.5

8.7

12.6

16.2 8.0

14.5

14.9

16.8

15.9

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.1

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

