

(YA133453) [B Service]

3689C

Natural Gas Engine

PETRO CANADA DURON GEO LD 15W40 (38 QTS)

RECOMMENDATION	
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Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

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The chromium level is abnormal. The aluminum level is abnormal.

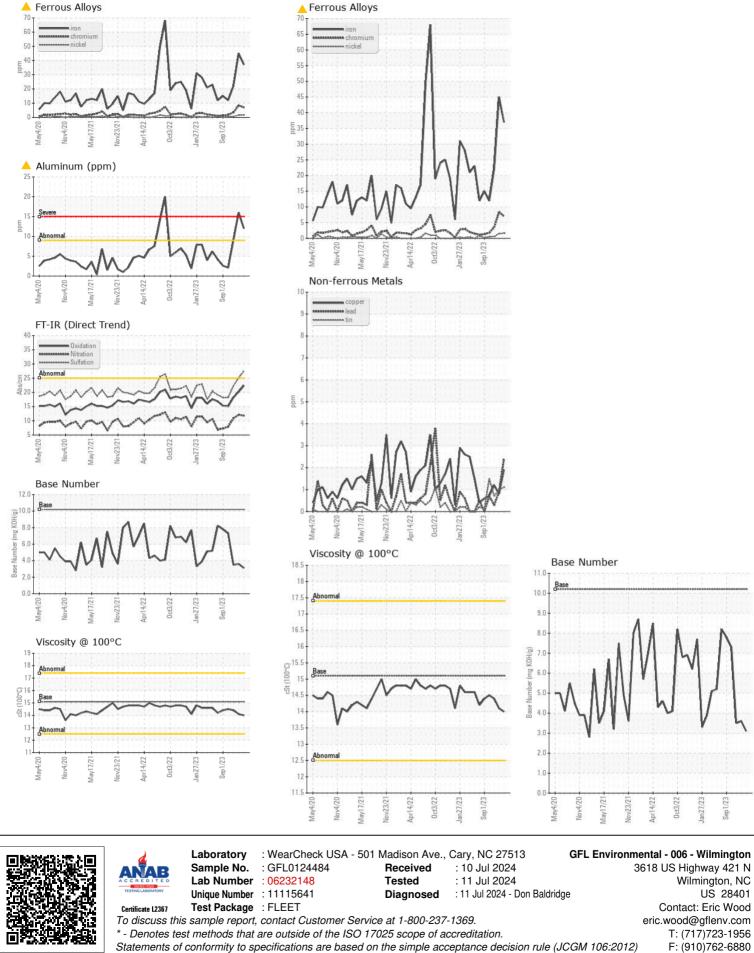
CONTAMINATION

There is no indication of any contamination in the oil.

	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	00111	Client Info		GFL0124484	GFL0111058	GFL0098522
	Sample Date		Client Info		08 Jul 2024	06 Mar 2024	10 Jan 2024
×t	Machine Age	hrs	Client Info		20929	19762	19672
	Oil Age	hrs	Client Info		1167	1145	808
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Not Change
	Filter Changed		Client Info		Changed	Changed	N/A
	Sample Status				ABNORMAL	ABNORMAL	NORMAL
	Iron	ppm	ASTM D5185m	>50	37	45	22
	Chromium	ppm	ASTM D5185m	>4	A 7	<u> </u>	4
	Nickel	ppm	ASTM D5185m	>2	2	2	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>9	🔺 12	1 6	9
	Lead	ppm	ASTM D5185m	>30	2	<1	<1
	Copper	ppm	ASTM D5185m	>35	2	<1	1
	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
				100	•	0	
	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m	>+100 >20	6 3	8	6 3
	Water	ppm	WC Method	>20	S NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>0.1	0	0.1	0
	Nitration	Abs/cm	*ASTM D7624	>20	11.8	12.1	10.9
	Sulfation	Abs/.1mm	*ASTM D7024	>30	27.6	25.1	22.3
	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
		Jouran	VISUUI	20.1		NEG	NEG
n the	Sodium	ppm	ASTM D5185m		7	8	4
	Boron	ppm	ASTM D5185m	50	3	5	4
	Barium	ppm	ASTM D5185m	5	0	0	0
	Molybdenum	ppm	ASTM D5185m	50	60	54	51
	Manganese	ppm	ASTM D5185m	0	1	2	<1
	Magnesium	ppm	ASTM D5185m	560	600	566	502
	Calcium	ppm	ASTM D5185m	1510	1760	1556	1460
		nnm	ASTM D5185m	780	777	783	694
	Phosphorus	ppm					
	Phosphorus Zinc	ppm	ASTM D5185m	870	1018	967	883
				870 2040	1018 2533	967 2348	883 2418
	Zinc	ppm	ASTM D5185m				
	Zinc Sulfur	ppm ppm	ASTM D5185m ASTM D5185m	2040	2533	2348	2418

FLUID CONDITION

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



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)