

## **OIL ANALYSIS REPORT**

Sample Rating Trend

FUEL

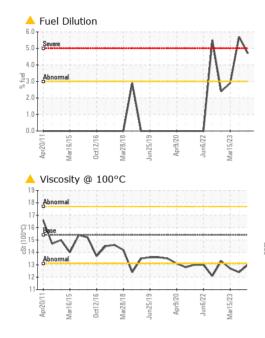


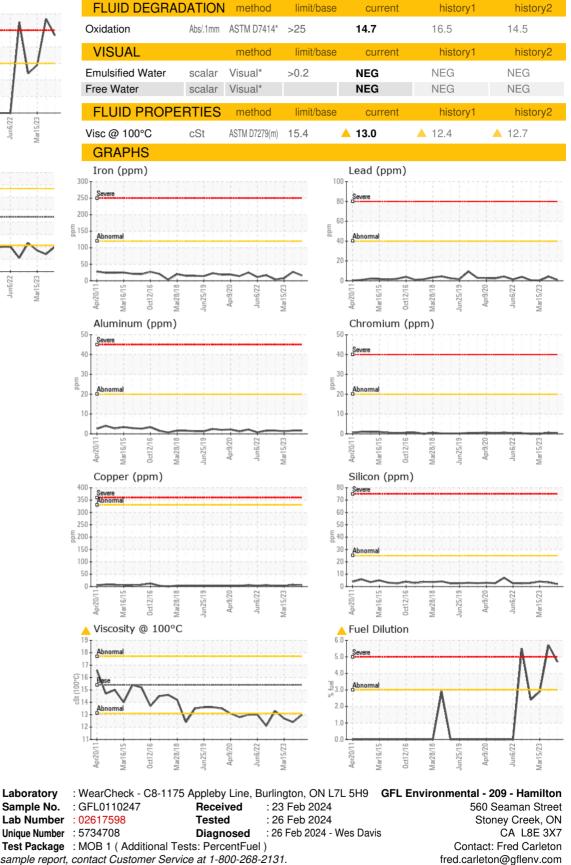
4421 Component **Diesel Engine** Fluid

PETRO CANADA DURON SHP 15W40 (40 LTR)

DIAGNOSIS	SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0110247	GFL0097759	GFL0064331
he oil change at the time of sampling has been	Sample Date		Client Info		14 Feb 2024	02 Nov 2023	15 Mar 2023
oted. We recommend an early resample to	Machine Age	hrs	Client Info		39973	39398	38423
nonitor this condition.	Oil Age	hrs	Client Info		600	600	600
/ear	Oil Changed		Client Info		Changed	Changed	Changed
Il component wear rates are normal.	Sample Status				ABNORMAL	SEVERE	ABNORMAL
Contamination here is a moderate amount of fuel present in the	CONTAMINAT	ION	method	limit/base	current	history1	history2
il. Tests confirm the presence of fuel in the oil.	Water		WC Method	>0.2	NEG	NEG	NEG
Fluid Condition	Glycol		WC Method		NEG	NEG	NEG
uel is present in the oil and is lowering the scosity. The oil is no longer serviceable due to the	WEAR METAL	S	method	limit/base	current	history1	history2
resence of contaminants.	Iron	ppm	ASTM D5185(m)	>120	16	27	8
	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	0
	Nickel	ppm	ASTM D5185(m)	>5	<1	<1	0
	Titanium	ppm	ASTM D5185(m)	>2	0	0	<1
	Silver	ppm	ASTM D5185(m)	>2	0	<1	0
	Aluminum	ppm	ASTM D5185(m)		2	2	1
	Lead	ppm	ASTM D5185(m)		<1	4	<1
	Copper	ppm	ASTM D5185(m)		4	7	3
	Tin	ppm	ASTM D5185(m)	>15	0	<1	0
	Antimony	ppm	ASTM D5185(m)		0	0	<1
	Vanadium	ppm	ASTM D5185(m)		0	0	0
	Beryllium	ppm	ASTM D5185(m)		0	0	0
	Cadmium	ppm	ASTM D5185(m)		0	0	0
	ADDITIVES		method	limit/base	current	history1	history2
	Boron	ppm	ASTM D5185(m)	0	2	2	9
	Barium	ppm	ASTM D5185(m)		0	<1	0
	Molybdenum	ppm	ASTM D5185(m)	60	55	57	54
	Manganese	ppm	ASTM D5185(m)		0	0	<1
	Magnesium	ppm	ASTM D5185(m)	1010	906	931	870
	Calcium	ppm	ASTM D5185(m)	1070	1024	1012	1135
	Phosphorus	ppm	ASTM D5185(m)	1150	952	923	1008
	Zinc	ppm	ASTM D5185(m)	1270	1102	1131	1078
	Sulfur	ppm	ASTM D5185(m)	2060	2523	2279	2500
	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
	CONTAMINAN		method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>25	2	3	4
	Sodium	ppm	ASTM D5185(m)	-	-	2	1
	Potassium	ppm	ASTM D5185(m)	>20	<1	- 1	<1
	Fuel	%	ASTM D7593*		<u> </u>	<b>5</b> .7	▲ 2.9
	INFRA-RED		method	limit/base		history1	history2
	Soot %	%	ASTM D7844*	>4	1.7	2.4	0.7
	Nitration		ASTM D7624*		8.5	10.5	6.8
	Niliration						

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To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

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CALA

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Laboratory

Laboratory

Sample No.

Submitted By: Fred Carleton

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T: (289)925-6693

F: (905)664-9008