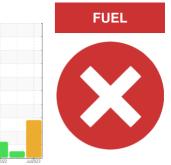


## **OIL ANALYSIS REPORT**

Sample Rating Trend



OR1050 Component

Fluid

**Diesel Engine** 

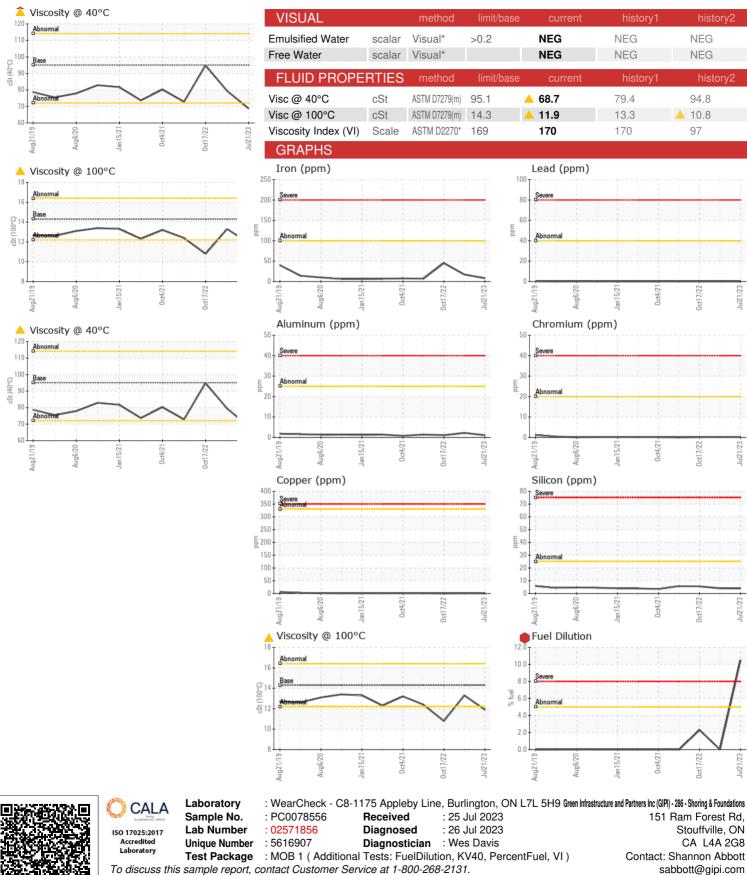
PETRO CANADA DURON UHP 5W40 (12 LTR)

			Aug2015	line it //	Oct2021 Oct2022	Jui2023	history O
DIAGNOSIS	SAMPLE INFO	RIVIATION		limit/base	current	history1	history2
Recommendation We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		PC0078556	PC0072019	PC0065689
	Sample Date		Client Info		21 Jul 2023	24 Feb 2023	17 Oct 2022
	Machine Age	hrs	Client Info		7514	7060	0
	Oil Age	hrs	Client Info		500	500	0
Wear	Oil Changed		Client Info		Changed	Changed	N/A
All component wear rates are normal.	Sample Status				SEVERE	NORMAL	ABNORMAL
Contamination	CONTAMINA	TION	method	limit/base	current	history1	history2
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Glycol		WC Method		NEG	NEG	NEG
Fluid Condition	WEAR META	LS	method	limit/base	current	history1	history2
Fuel is present in the oil and is lowering the	Iron	ppm	ASTM D5185(m)	>100	8	17	45
viscosity. The oil is no longer serviceable due to the presence of contaminants.	Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
	Nickel	ppm	ASTM D5185(m)	>2	0	0	<1
	Titanium	ppm	ASTM D5185(m)	>2	0	<1	<1
	Silver	ppm	ASTM D5185(m)	>2	0	0	0
	Aluminum	ppm	ASTM D5185(m)	>25	1	2	1
	Lead	ppm	ASTM D5185(m)		0	0	0
	Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
	Tin	ppm	ASTM D5185(m)		0	0	0
	Antimony	ppm	ASTM D5185(m)		0	0	0
	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)	65	33	34	2
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	65	54	52	<1
	Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
	Magnesium	ppm	ASTM D5185(m)	1160	974	998	13
	Calcium	ppm	ASTM D5185(m)	820	697	791	3169
	Phosphorus	ppm	ASTM D5185(m)	1160	912	1002	1123
	Zinc	ppm	ASTM D5185(m)	1260	1008	1090	1265
	Sulfur	ppm	ASTM D5185(m)	3000	2421	2591	9355
	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>25	4	4	6
	Sodium	ppm	ASTM D5185(m)		4	4	1
	Potassium	ppm	ASTM D5185(m)	>20	<1	0	<1
	Fuel	%	ASTM D7593*		<b>e</b> 10.5	<1.0	<b>2</b> .3
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*	>3	0.1	0.5	0
	Nitration		ASTM D7624*		10.0	10.4	4.6
	Sulfation	Abs/.1mm	ASTM D7415*		20.1	23.9	17.8
	FLUID DEGRA	ADATION	method	limit/base	current	history1	history2
	Oxidation		ASTM D7414*	> 25	19.1	19.9	4.0
	Uxidation	AUS/. THUT	A010111414				

Contact/Location: Shannon Abbott - GFL286



## **OIL ANALYSIS REPORT**



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.

T: (905)750-5900

Oct17/22

Jul21/23

F:

NEG

NEG

94.8

97

0ct17/22

0ct17/22 -

history