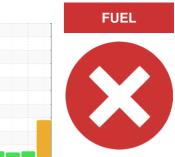


## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id 928002 Component

**Diesel Engine** Fluid

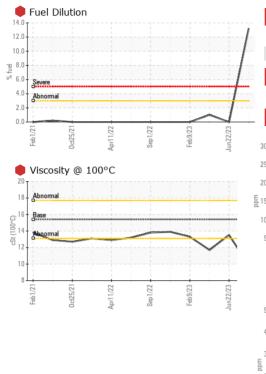
PETRO CANADA DURON SHP 15W40 (--- GAL)

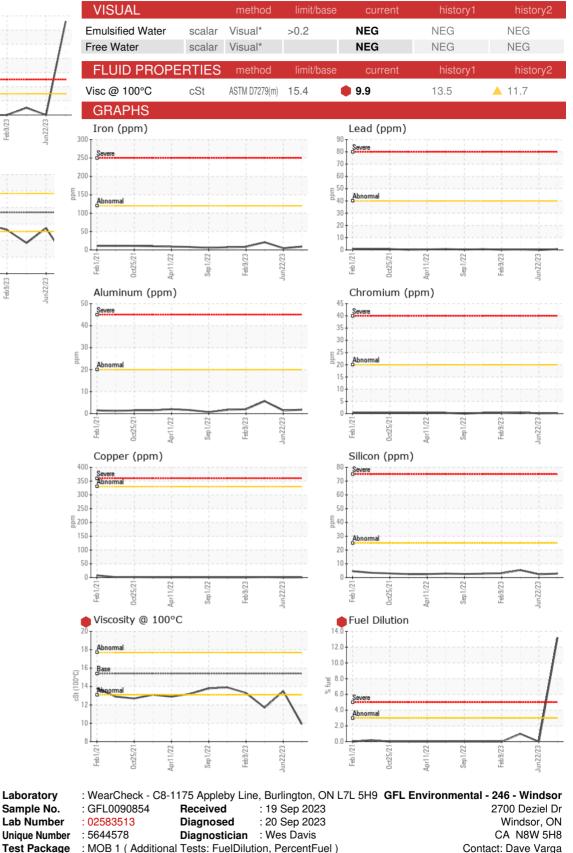
DIAGNOSIS	SAMPLE INFO	RMATION	method	limit/base	Sep2022 Feb2023 J	history1	history2
Recommendation	Sample Number		Client Info		GFL0090854	GFL0082570	GFL0082552
We advise that you check the fuel injection system.	Sample Date		Client Info		15 Sep 2023	22 Jun 2023	22 May 2023
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this	Machine Age	hrs	Client Info		0	216495	212143
	Oil Age	hrs	Client Info		8983	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
condition.	Sample Status				SEVERE	NORMAL	ABNORMAL
Wear	•	TION					
All component wear rates are normal.  Contamination	CONTAMINA	HON	method	limit/base	current	history1	history2
There is a high amount of fuel present in the oil.	Glycol		WC Method		NEG	NEG	NEG
Tests confirm the presence of fuel in the oil.	WEAR META	LS	method	limit/base	current	history1	history2
Fluid Condition	Iron	ppm	ASTM D5185(m)	>120	9	5	21
Fuel is present in the oil and is lowering the 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)	>5	<1	0	<1
	Titanium	ppm	ASTM D5185(m)	>2	<1	0	<1
	Silver	ppm	ASTM D5185(m)	>2	0	<1	0
	Aluminum	ppm	ASTM D5185(m)	>20	2	1	6
	Lead	ppm	ASTM D5185(m)	>40	<1	0	<1
	Copper	ppm	ASTM D5185(m)	>330	1	<1	2
	Tin	ppm	ASTM D5185(m)	>15	0	0	<1
	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	34	7	24
	Barium	ppm	ASTM D5185(m)	0	0	0	0
	Molybdenum	ppm	ASTM D5185(m)	60	8	55	43
	Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
	Magnesium	ppm	ASTM D5185(m)	1010	106	892	530
	Calcium	ppm	ASTM D5185(m)	1070	1761	1091	1804
	Phosphorus	ppm	ASTM D5185(m)	1150	851	999	801
	Zinc	ppm	ASTM D5185(m)	1270	987	1117	916
	Sulfur	ppm	ASTM D5185(m)	2060	2179	2505	2180
	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>25	3	2	5
	Sodium	ppm	ASTM D5185(m)		8	2	3
	Potassium	ppm	ASTM D5185(m)	>20	4	2	11
	Fuel	%	ASTM D7593*	>3.0	<b>•</b> 13.2	<1.0	1
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*	>4	0.4	0.1	1.2
	Nitration	Abs/cm	ASTM D7624*		8.5	5.9	9.7
	Sulfation		ASTM D7415*		22.2	18.6	23.9
	FLUID DEGRA		method	limit/base	current	history1	history2
	Oxidation		ASTM D7414*		16.4	14.2	20.7
	0					· · ·	

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## **OIL ANALYSIS REPORT**





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Laboratory

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Sample No.