

OIL ANALYSIS REPORT

Sample Rating Trend

Component Fluid

Area [1218455] 800019 **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (20 LTR)



DIAGNOSIS	SAMPLE INFO	RMATION	method	limit/base	current	history1	history2
Recommendation	Sample Number		Client Info		GFL0102723	GFL0102683	GFL0089006
We advise that you check the fuel injection system.	Sample Date		Client Info		30 Jan 2024	20 Nov 2023	12 Sep 2023
The oil change at the time of sampling has been	Machine Age	hrs	Client Info		14142	13662	12998
noted. We recommend an early resample to	Oil Age	hrs	Client Info		0	0	12998
nonitor this condition.	Oil Changed		Client Info		Changed	N/A	N/A
Wear All component wear rates are normal.	Sample Status				SEVERE	SEVERE	SEVERE
Contamination	CONTAMINA	TION	method	limit/base	current	history1	history2
There is a high amount of fuel present in the oil. Fests confirm the presence of fuel in the oil.	Water		WC Method	>0.2	NEG	NEG	NEG
	WEAR META	\LS	method	limit/base	current	history1	history2
Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Iron	ppm	ASTM D5185(m)	>75	40	37	31
	Chromium	ppm	ASTM D5185(m)	>5	4	2	2
	Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
	Titanium	ppm	ASTM D5185(m)	>2	0	0	0
	Silver	ppm	ASTM D5185(m)	>2	0	<1	0
	Aluminum	ppm	ASTM D5185(m)	>15	4	3	4
	Lead	ppm	ASTM D5185(m)	>25	<1	<1	<1
	Copper	ppm	ASTM D5185(m)	>100	<1	<1	<1
	Tin	ppm	ASTM D5185(m)	>4	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)	0	1	2	2
	Barium	ppm	ASTM D5185(m)	0	0	<1	0
	Molybdenum	ppm	ASTM D5185(m)	60	45	46	52
	Manganese	ppm	ASTM D5185(m)	0	0	0	<1
	Magnesium	ppm	ASTM D5185(m)	1010	733	755	835
	Calcium	ppm	ASTM D5185(m)	1070	834	849	894
	Phosphorus	ppm	ASTM D5185(m)	1150	767	794	903
	Zinc	ppm	ASTM D5185(m)	1270	899	951	1021
	Sulfur	ppm	ASTM D5185(m)	2060	1956	1883	2111
	Lithium	ppm	ASTM D5185(m)		<1	<1	<1
	CONTAMINA	NTS	method	limit/base	current	history1	history2
	Silicon	ppm	ASTM D5185(m)	>25	5	5	5
	Sodium	ppm	ASTM D5185(m)		79	51	36
	Potassium	ppm	ASTM D5185(m)	>20	6	5	8
	Fuel	%	ASTM D7593*	>3.0	• 17.5	13.4	1 1.5
	Glycol	%	ASTM D7922*		0.0	NEG	0.0
	INFRA-RED		method	limit/base	current	history1	history2
	Soot %	%	ASTM D7844*	>6	0.5	0.6	0.6
	Nitration	Abs/cm	ASTM D7624*	>20	16.4	16.9	14.3
	Sulfation	Abc/1mm	ASTM D7/15*	>30	20.2	3/1 2	20.2

Abs/.1mm ASTM D7415* >30

28.3

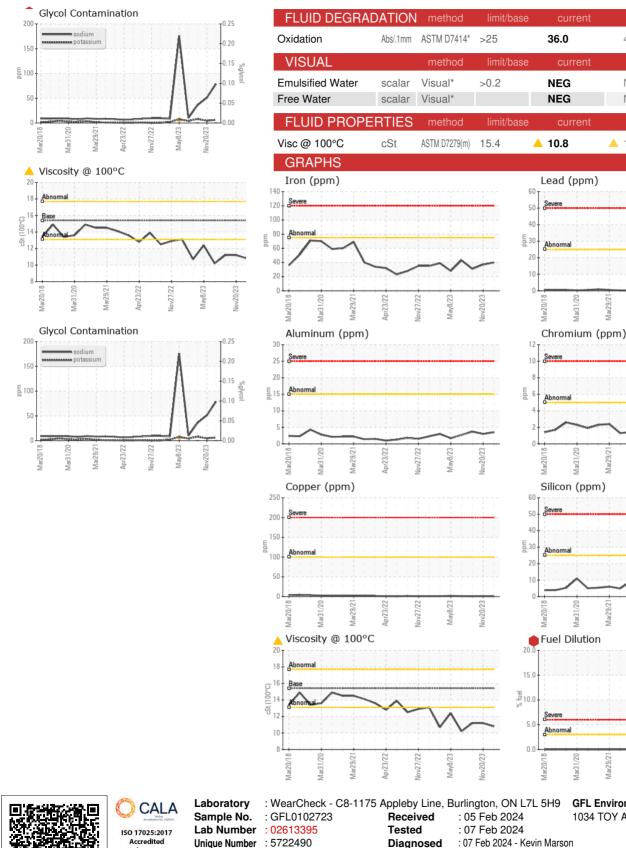
Sulfation

30.3

34.2



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Test Package : MOB 1 (Additional Tests: Glycol, PercentFuel)

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.

To discuss this sample report, contact Customer Service at 1-800-268-2131.

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Vov27/22

Apr23/22

47.2

NEG

NEG

11.2

Aar79.77

(19C16)

Aar29/7

38.4

NEG

NEG

▲ 11.2

lov27/22

av8/23

history?

Laboratory

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