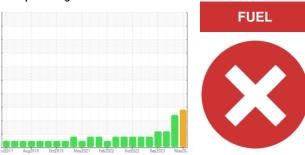


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id **8422**Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (20 LTR)

DIAGNOSIS

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.

Wear

Metal levels are typical for a new component breaking in.

▲ Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

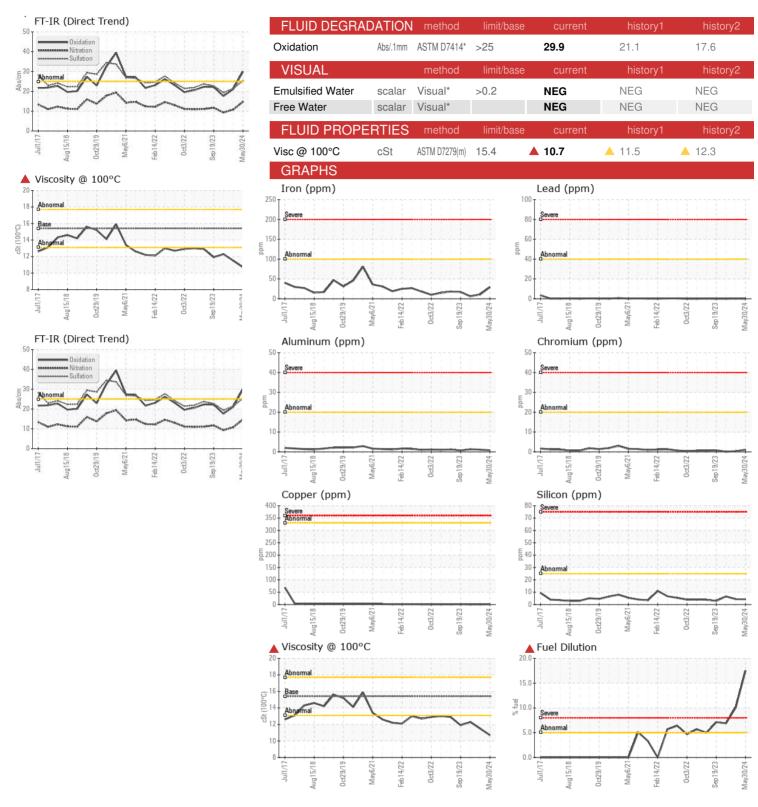
▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

LTR) ui2017 Aug/2018 Oct2019 May/2021 Feb/2022 Oct2022 Seg/2023 May/201						
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116854	GFL0110713	GFL0097436
Sample Date		Client Info		30 May 2024	29 Feb 2024	04 Jan 2024
Machine Age	hrs	Client Info		535	535	535
Oil Age	hrs	Client Info		535	535	535
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				SEVERE	SEVERE	ABNORMAL
CONTAMINAT	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	29	11	6
Chromium	ppm	ASTM D5185(m)	>20	1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	1	1
Lead	ppm	ASTM D5185(m)	>40	0	<1	0
Copper	ppm	ASTM D5185(m)	>330	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	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	3	1	2
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	45	50	52
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	730	820	842
Calcium	ppm	ASTM D5185(m)	1070	807	890	925
Phosphorus	ppm	ASTM D5185(m)	1150	743	874	900
Zinc	ppm	ASTM D5185(m)	1270	899	1019	1046
Sulfur	ppm	ASTM D5185(m)	2060	1780	2266	2351
Lithium	ppm	ASTM D5185(m)	2000	<1	<1	<1
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	4	7
Sodium	ppm	ASTM D5185(m)		2	1	<1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Fuel	%	ASTM D7593*	>5	▲ 17.5	▲ 10.1	△ 6.9
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.5	0.2	0.1
Nitration	Abs/cm	ASTM D7624*	>20	14.7	10.8	9.3
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.4	21.3	19.4



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No.

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : GFL0116854

Lab Number : 02639333 Unique Number : 5788495

Received : 03 Jun 2024 **Tested** : 04 Jun 2024

: 04 Jun 2024 - Kevin Marson

Diagnosed

Test Package : MOB 1 (Additional Tests: PercentFuel) 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.

GFL Environmental - 221 - Windsor

905 Tecumseh Road W Windsor, ON **CA N8W 4J5**

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F: