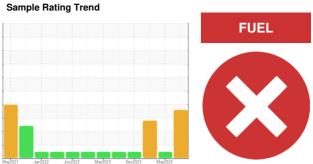


# **OIL ANALYSIS REPORT**

### эт





Machine Id
5593
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 10W30 (40 LTR)

### DIAGNOSIS

#### Recommendation

We advise that you check the fuel injection system. Check for low coolant level. 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 condition.

#### Wear

All component wear rates are normal.

#### ▲ Contamination

There is a high amount of fuel present in the oil. Water treatment chemicals present, indicating slow coolant leak. Tests confirm the presence of fuel in the oil. Test for glycol is negative.

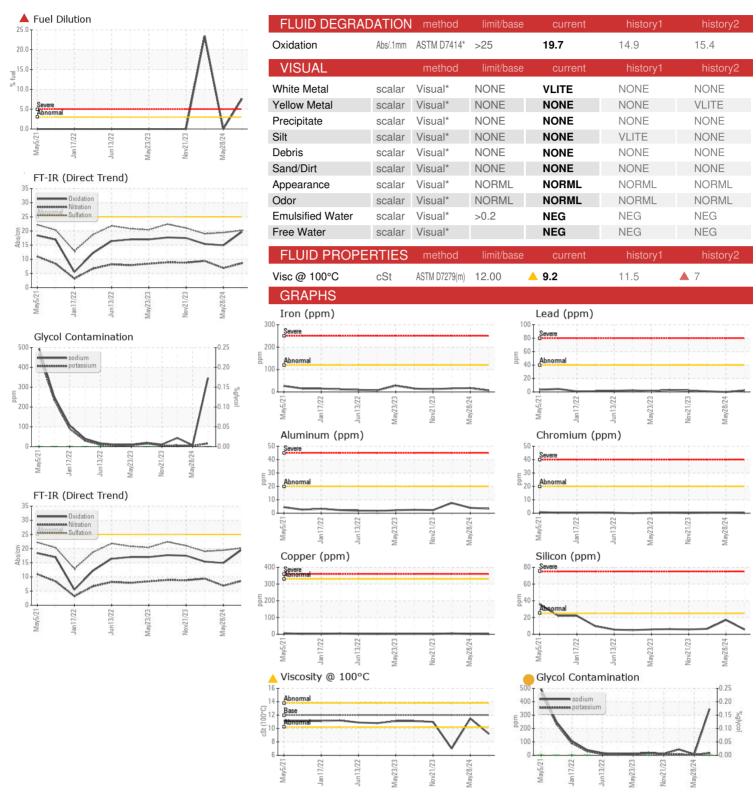
#### Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants. The condition of the oil is acceptable for the time in service (see recommendation).

10000	,					
SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL	GFL0112522	GFL0102587
Sample Date		Client Info		08 Jul 2024	28 May 2024	05 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	SEVERE
CONTAMINAT	ΓΙΟΝ	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	_S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	7	17	16
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	<1	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	4	8
Lead	ppm	ASTM D5185(m)	>40	2	0	1
Copper	ppm	ASTM D5185(m)	>330	1	2	5
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
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)	2	2	2	2
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	50	62	59	46
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	950	765	968	690
Calcium	ppm	ASTM D5185(m)	1050	836	1042	794
Phosphorus	ppm	ASTM D5185(m)	995	832	993	723
Zinc	ppm	ASTM D5185(m)	1180	944	1158	840
Sulfur	ppm	ASTM D5185(m)	2600	2108	2400	2005
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINA	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	6	17	6
Sodium	ppm	ASTM D5185(m)		<b>9</b> 346	7	44
Potassium	ppm	ASTM D5185(m)	>20	16	4	6
Fuel	%	ASTM D7593*	>3.0	<b>A</b> 7.6	0.0	▲ 23.5
Glycol	%	ASTM D7922*		0.0	NEG	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.1	0.1	0.1
Nitration	Abs/cm	ASTM D7624*	>20	8.6	6.9	9.4



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Report Id: GFL554 [WCAMIS] 02646642 (Generated: 07/11/2024 08:09:02) Rev: 1

Laboratory Sample No.

Lab Number Unique Number : 5812194

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

: 02646642

Received : 09 Jul 2024 **Tested** : 11 Jul 2024 Diagnosed

: 11 Jul 2024 - Wes Davis

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

8409 -15th Street NW Edmonton, AB **CA T6P 0B8** Contact: Tim Greig tgreig@gflenv.com T: (780)231-0521

Validity of results and interpretation are based on the sample and information as supplied.

Submitted By: Brian Gagne

GFL Environmental - 554 - Edmonton SW