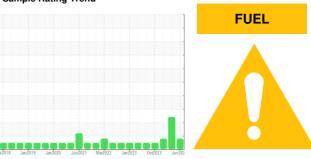


# **OIL ANALYSIS REPORT**

### Sample Rating Trend





Machine Id
701050
Component
Diesel Engine
Fluid

PETRO CANADA DURON SHP 15W40 (20 GAL)

### DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time.

#### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. No other contaminants were detected in the oil.

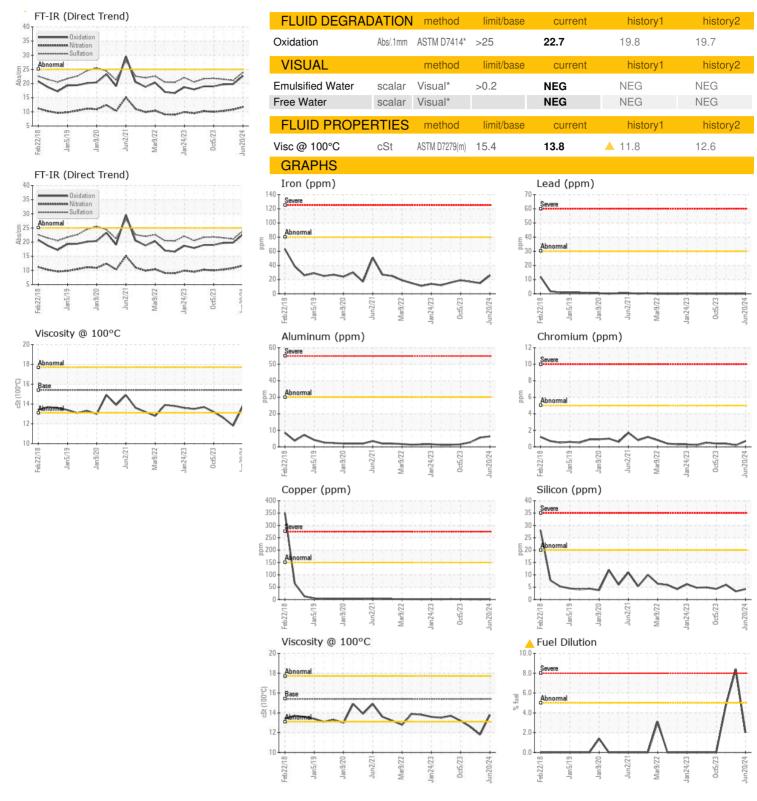
#### **Fluid Condition**

The condition of the oil is acceptable for the time in service.

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0123455	GFL0110714	GFL009743
Sample Date		Client Info		20 Jun 2024	19 Mar 2024	04 Jan 2024
Machine Age	hrs	Client Info		514	514	514
Oil Age	hrs	Client Info		514	514	514
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				MARGINAL	SEVERE	MARGINAL
CONTAMINA	TION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR META	LS	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>80	26	15	17
Chromium	ppm	ASTM D5185(m)	>5	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	0	0
Aluminum	ppm	ASTM D5185(m)	>30	6	6	3
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	1	<1	1
Tin	ppm	ASTM D5185(m)	>5	0	0	0
Antimony	ppm	ASTM D5185(m)		<1	0	0
/anadium	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	2	0	2
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	56	51	55
Manganese	ppm	ASTM D5185(m)	0	<1	0	0
Magnesium	ppm	ASTM D5185(m)	1010	888	829	886
Calcium	ppm	ASTM D5185(m)	1070	971	897	981
Phosphorus	ppm	ASTM D5185(m)	1150	915	833	917
Zinc	ppm	ASTM D5185(m)	1270	1127	1026	1104
Sulfur	ppm	ASTM D5185(m)	2060	2222	2157	2318
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAL	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	4	3	6
Sodium	ppm	ASTM D5185(m)		2	2	2
Potassium	ppm	ASTM D5185(m)	>20	11	11	5
Fuel	%	ASTM D7593*	>5	<u>^</u> 2	▲ 8.4	<u>4.8</u>
INFRA-RED		method	limit/base	current	history1	history2
	0/	A OTM A D70 4 4*	0	0.5	0.3	0.0
Soot %	%	ASTM D7844*	>3	0.5	0.3	0.3
Soot % Nitration	% Abs/cm		>3	0.5 11.7	10.8	10.3



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited

Laboratory

Sample No.

Laboratory

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Lab Number : 02643634 Unique Number : 5801173

: GFL0123455

Received **Tested** Diagnosed

Test Package : MOB 1 ( Additional Tests: PercentFuel )

: 24 Jun 2024

: 25 Jun 2024

: 25 Jun 2024 - Wes Davis

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** 

Contact: Pamela-Jean Butler pamelajean.butler@gflenv.com T: (519)948-8126