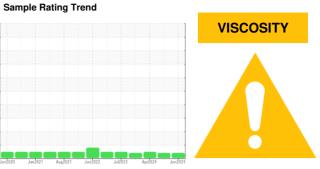


# **OIL ANALYSIS REPORT**

#### **-**





Machine Id
925006
Component
Diesel Engine
Fluid

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

### **DIAGNOSIS**

#### Recommendation

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time. The fluid was specified as PETRO CANADA DURON SHP 15W40, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade on your next sample.

#### Wear

All component wear rates are normal.

### Contamination

Light fuel dilution occurring. No other contaminants were detected in the oil.

#### Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113196	GFL0113234	GFL0113245
Sample Date		Client Info		25 Jun 2024	14 Jun 2024	16 Apr 2024
Machine Age	hrs	Client Info		17016	0	17016
Oil Age	hrs	Client Info		16485	22946	16485
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
CONTAMINATIO	NC	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	8	4	6
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	<1	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	3	1	2
Lead	ppm	ASTM D5185(m)	>40	<1	0	0
Copper	ppm	ASTM D5185(m)	>330	2	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	0	0
Antimony	ppm	ASTM D5185(m)		<1	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	25	35	96
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	42	36	3
Manganese	ppm	ASTM D5185(m)	0	<1	<1	0
Magnesium	ppm	ASTM D5185(m)	1010	475	448	51
Calcium	ppm	ASTM D5185(m)	1070	1572	1690	2105
Phosphorus	ppm	ASTM D5185(m)	1150	684	733	887
	ppm	ASTM D5185(m)	1270	822	874	1086
Sulfur	ppm	ASTM D5185(m)	2060	1890	2134	2690
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	5	3
	ppm	ASTM D5185(m)		3	2	3
	ppm	ASTM D5185(m)	>20	1	<1	5
	%	ASTM D7593*	>3.0	1.8	1.5	<1.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.5	0.1	0.8
	Abs/cm	ASTM D7624*	>20	9.2	7.2	8.6
	Abs/.1mm	ASTM D7415*	>30	22.8	22.1	21.7
	,	2				



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No.

: GFL0113196 Lab Number : 02644327 Unique Number : 5801866

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

Received : 27 Jun 2024 **Tested** : 28 Jun 2024 Diagnosed : 28 Jun 2024 - Kevin Marson

Test Package : MOB 1 ( Additional Tests: FUELDILUTION, 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 - 246 - Windsor

2700 Deziel Dr Windsor, ON **CA N8W 5H8** Contact: Dave Varga dvarga@gflenv.com T: (519)944-8009