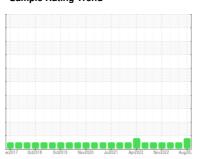


# **OIL ANALYSIS REPORT**

### Sample Rating Trend



FUEL



701039

Component **Diesel Engine** 

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

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

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

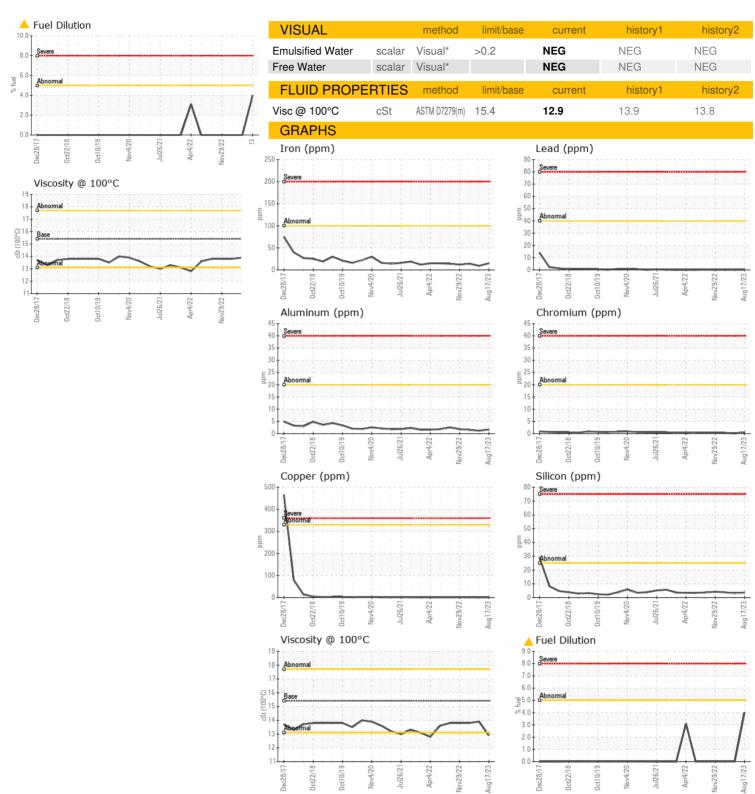
### **Fluid Condition**

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

GAL) #2817 Oct013 Oct013 Newf022 April022 Newf022 April022 April02						
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0085691	GFL0077309	GFL0070438
Sample Date		Client Info		17 Aug 2023	19 May 2023	23 Mar 2023
Machine Age	hrs	Client Info		0	416	416
Oil Age	hrs	Client Info		0	416	416
Oil Changed		Client Info		N/A	Changed	Changed
Sample Status				MARGINAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	15	9	14
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	<1	<1
Silver	ppm	ASTM D5185(m)	>3	<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	2	1	2
Lead	ppm	ASTM D5185(m)	>40	<1	0	0
Copper	ppm	ASTM D5185(m)	>330	1	<1	<1
Tin	ppm	ASTM D5185(m)	>15	0	<1	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	2	1
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	60	57	56	59
Manganese	ppm	ASTM D5185(m)	0	<1	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	916	926	950
Calcium	ppm	ASTM D5185(m)	1070	1015	1049	1119
Phosphorus	ppm	ASTM D5185(m)	1150	1002	1034	1036
Zinc	ppm	ASTM D5185(m)	1270	1152	1142	1188
Sulfur	ppm	ASTM D5185(m)	2060	2368	2478	2483
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	la la Alama d	hiotomyO
	110	method	IIIIII/Dase	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	4	3	4
Silicon	ppm	ASTM D5185(m)		4	3	4
Silicon Sodium	ppm ppm	ASTM D5185(m) ASTM D5185(m)	>25	4 1	3	4 2
Silicon Sodium Potassium	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	>25 >20	4 1 1	3 1 <1	4 2 <1
Silicon Sodium Potassium Fuel	ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593*	>25 >20 >5	4 1 1 • 4	3 1 <1 <1.0	4 2 <1 <1.0
Silicon Sodium Potassium Fuel INFRA-RED	ppm ppm ppm %	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593*	>25 >20 >5 limit/base	4 1 1 4 current	3 1 <1 <1.0 history1	4 2 <1 <1.0 history2
Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm %	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593*  method ASTM D7844*	>25 >20 >5 limit/base >3	4 1 1 4 current 0.3	3 1 <1 <1.0 history1 0.2	4 2 <1 <1.0 history2 0.2
Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm % % Abs/cm Abs/.1mm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D7593*  method ASTM D7844* ASTM D7624* ASTM D7415*	>25 >20 >5 limit/base >3 >20	4 1 1 4 current 0.3 9.5	3 1 <1 <1.0 history1 0.2 8.9	4 2 <1 <1.0 history2 0.2 10.4



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: 5630094

: GFL0085691 : 02577034

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 221 - Windsor Received Diagnosed

**Test Package**: MOB 1 (Additional Tests: FuelDilution, PercentFuel)

: 22 Aug 2023 Diagnostician : Wes Davis

: 21 Aug 2023

Windsor, ON **CA N8W 4J5** Contact: Rhys Marotte rmarotte@gflenv.com

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.

905 Tecumseh Road W

T:

F: