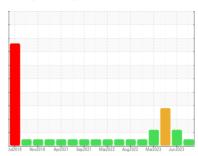


# **OIL ANALYSIS REPORT**

Sample Rating Trend







801107 Component

**Diesel Engine** 

PETRO CANADA DURON SHP 15W40 (--- G

### 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

All component wear rates are normal.

#### Contamination

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

#### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

GAL)						
SAMPLE INFORM	MATION	Juizo18 Nova	limit/base	Mar2022 Aug2022 Mar2023	Jun2023	hiotom/O
	VIATION		iiiiii/base	current	history1	history2
Sample Number		Client Info		GFL0091616	GFL0077588	GFL0077633
Sample Date		Client Info		19 Sep 2023	29 Jun 2023	05 Jun 2023
Machine Age	hrs	Client Info		170522	12790	12608
Oil Age	hrs	Client Info		33105	187	600
Oil Changed		Client Info		Changed NORMAL	Changed ABNORMAL	Changed SEVERE
Sample Status			11 11 11			-
CONTAMINATI	ION	method	limit/base	current	history1	history2
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>80	34	13	25
Chromium	ppm	ASTM D5185(m)	>5	2	<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	<1	<1	0
Aluminum	ppm	ASTM D5185(m)	>30	6	4	5
Lead	ppm	ASTM D5185(m)	>30	0	0	0
Copper	ppm	ASTM D5185(m)	>150	2	<1	1
Tin	ppm	ASTM D5185(m)	>5	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	2	2	2
Barium	ppm	ASTM D5185(m)	0	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	60	60	54	49
Manganese	ppm	ASTM D5185(m)	0	0	<1	<1
Magnesium	ppm	ASTM D5185(m)	1010	963	874	784
Calcium	ppm	ASTM D5185(m)	1070	1057	963	874
Phosphorus	ppm	ASTM D5185(m)	1150	1002	985	856
Zinc	ppm	ASTM D5185(m)	1270	1204	1092	978
Sulfur	ppm	ASTM D5185(m)	2060	2445	2375	1974
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	13	5	4
Sodium	ppm	ASTM D5185(m)		8	5	7
Potassium	ppm	ASTM D5185(m)	>20	1	<1	1
Fuel	%	ASTM D7593*	>5	1.5	<b>△</b> 5.6	12.4
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.7	0.4	1
Nitration	Abs/cm	ASTM D7624*	>20	9.9	8.0	11.5
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.9	21.1	24.8



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number Unique Number

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 GFL Environmental - 550 - Rocky View County : GFL0091616

: 02586981

Received : 05 Oct 2023 Diagnosed : 06 Oct 2023

Diagnostician : Wes Davis : 5656047 Test Package : MOB 2 ( 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.

220 Carmek Blvd Rocky View County, AB **CA T1X 1X1** 

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F: (403)369-6163

Submitted By: GFL Calgary