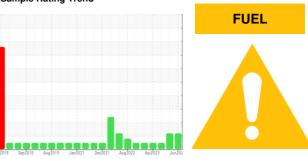


# **OIL ANALYSIS REPORT**

# Sample Rating Trend





Machine Id
701049
Component
Front Diesel Engine

PETRO CANADA DURON SHP 15W40 (20 LTR)

### DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

#### Wear

All component wear rates are normal.

### 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. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

### 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.

SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116853	GFL0097438	GFL008567
Sample Date		Client Info		04 Jun 2024	10 Jan 2024	27 Sep 2023
Machine Age	hrs	Client Info		1393	1393	1393
Oil Age	hrs	Client Info		1393	1393	1393
Oil Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
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)	>90	9	9	11
Chromium	ppm	ASTM D5185(m)	>20	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	7	7	4
Lead	ppm	ASTM D5185(m)	>40	0	0	<1
Copper	ppm	ASTM D5185(m)	>330	1	1	2
Tin	ppm	ASTM D5185(m)	>15	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	1	2
Barium	ppm	ASTM D5185(m)	0	0	0	<1
Molybdenum	ppm	ASTM D5185(m)	60	56	55	58
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	1010	912	886	932
Calcium	ppm	ASTM D5185(m)	1070	1002	988	1032
Phosphorus	ppm	ASTM D5185(m)	1150	952	948	951
Zinc	ppm	ASTM D5185(m)	1270	1143	1104	1173
Sulfur	ppm	ASTM D5185(m)	2060	2421	2467	2317
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAL	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	2	2	4
Sodium	ppm	ASTM D5185(m)		1	<1	2
Potassium	ppm	ASTM D5185(m)	>20	12	11	6
Fuel	%	ASTM D7593*	>3.0	<b>△</b> 3.2	<b>▲</b> 4.1	<1.0
INFRA-RED		method	limit/base	current	history1	history2
	%	ASTM D7844*	>6	0.2	0.2	0.2
Soot % Nitration	% Abs/cm		>6 >20	0.2 9.3	0.2 9.3	0.2 9.1



## **OIL ANALYSIS REPORT**





CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Lab Number : 02640104

Sample No. Unique Number : 5789266

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

: GFL0116853

Received

**Tested** 

: 06 Jun 2024

: 07 Jun 2024

: 07 Jun 2024 - Wes Davis

Diagnosed

Test Package : MOB 1 ( 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.

GFL Environmental - 221 - Windsor

905 Tecumseh Road W Windsor, ON **CA N8W 4J5** 

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F:

Submitted By: Pamela-Jean Butler