

Area [1242973]

816002 Component

# **OIL ANALYSIS REPORT**

Sample Rating Trend



FUEL

Diesel Engine Fluid PETRO CANADA DURON SHP 15W40 (--- LTR)

# DIAGNOSIS

### Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

## Wear

All component wear rates are normal.

### Contamination

There is a high 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 INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0093962	GFL0093929	GFL0062935
Sample Date		Client Info		15 Mar 2024	25 Oct 2023	11 Aug 2023
Machine Age	hrs	Client Info		17765	17225	16863
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	SEVERE
CONTAMINAT	ION	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	35	21	40
Chromium	ppm	ASTM D5185(m)	>20	2	<1	2
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>3	0	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	6	2	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	5	5	6
Barium	ppm	ASTM D5185(m)	0	0	<1	0
Molybdenum	ppm	ASTM D5185(m)	60	50	50	58
Manganese	ppm	ASTM D5185(m)	0	0	0	<1
Magnesium	ppm	ASTM D5185(m)	1010	769	769	860
Calcium	ppm	ASTM D5185(m)	1070	903	884	993
Phosphorus	ppm	ASTM D5185(m)	1150	782	806	938
Zinc	ppm	ASTM D5185(m)	1270	944	968	1060
Sulfur	ppm	ASTM D5185(m)	2060	1909	1999	2178
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	7	5	12
Sodium	ppm	ASTM D5185(m)		58	41	77
Potassium	ppm	ASTM D5185(m)	>20	14	8	15
Fuel	%	ASTM D7593*	>5	<b>1</b> 3.3	<b>9</b> .3	▲ 10.4
Glycol	%	ASTM D7922*		0.0	0.0	0.0
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0.9	0.6	1.1
Nitration	Abs/cm	ASTM D7624*	>20	14.0	10.9	12.4
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.5	21.8	26.2



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Test Package : MOB 1 (Additional Tests: Glycol, 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.

197 Putman Industrial Road Belleville, ON CA K8N 4Z6 Contact: Andrea Michael amichael@gflenv.com T: (613)962-7144 F: (613)962-1994

20.0

NEG

NEG

**11.4** 

un16/22

un16/22

CC/LJO

CC/LJO

CCITra

CC/LJ

24.0

NEG

NEG

▲ 11.1

Aug11/23

Aug11/23

Aug11/23.

1/23

Augl

Mar15/24

Mar15/24

Mar15/24

history?

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