

## **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **727009** Component **Diesel Engine** Fluid **PETRO CANADA DURON SHP 15W40 (--- GAL)** 



# DIAGNOSIS

Recommendation We advise that you check for the source of the coolant leak. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. The fluid was specified as PETRO CANADA DUBON SHP 15W40, however, a fluid

We recommend an early resample to monitor this condition. 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

Test for glycol is positive. Light fuel dilution occurring. There is a moderate concentration of glycol present in the oil. No other contaminants were detected in the oil.

#### Fluid Condition

This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0113205	GFL0113246	GFL0097314
Sample Date		Client Info		18 Jun 2024	18 Apr 2024	11 Jan 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		18416	40759	17390
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Mater			0.0	NEO	NEO	NEC
water		WC Method	>0.2	NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	7	9	58
Chromium	ppm	ASTM D5185(m)	>20	0	0	2
Nickel	ppm	ASTM D5185(m)	>5	<1	0	<1
Titanium	ppm	ASTM D5185(m)	>2	0	0	0
Silver	ppm	ASTM D5185(m)	>2	0	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	2	1	24
Lead	ppm	ASTM D5185(m)	>40	0	0	5
Copper	ppm	ASTM D5185(m)	>330	<1	<1	20
Tin	ppm	ASTM D5185(m)	>15	<1	0	3
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	87	8	33
Barium	ppm	ASTM D5185(m)	0	0	0	5
Molybdenum	ppm	ASTM D5185(m)	60	6	53	13
Manganese	ppm	ASTM D5185(m)	0	0	0	6
Magnesium	ppm	ASTM D5185(m)	1010	69	845	731
Calcium	ppm	ASTM D5185(m)	1070	2000	1020	1298
Phosphorus	ppm	ASTM D5185(m)	1150	849	885	693
Zinc	ppm	ASTM D5185(m)	1270	1034	1037	761
Sulfur	ppm	ASTM D5185(m)	2060	2613	2291	2411
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINAN	TS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	3	<1	<b>4</b> 3
Sodium	ppm	ASTM D5185(m)		8	1	6
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b> 4	0	70
Fuel	%	ASTM D7593*	>3.0	2.4	<1.0	1.1
Glycol	%	ASTM D7922*		▲ 0.08	NEG	NEG
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.2	1.7	0.1
Nitration	Abs/cm	ASTM D7624*	>20	9.2	7.1	9.8
Sulfation	Ahs/1mm	ASTM D7415*	>30	23.6	20.9	22.6



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