



# OIL ANALYSIS REPORT

Sample Rating Trend

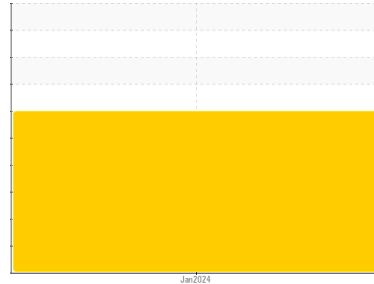
GLYCOL



Machine Id  
**210032**

Component  
**Front Diesel Engine**

Fluid  
**PETRO CANADA DURON SHP 15W40 (36 LTR)**



## DIAGNOSIS

### Recommendation

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the component make and model with your next sample.

### Wear

All component wear rates are normal.

### Contamination

Test for glycol is positive. There is a moderate amount of fuel present in the oil. There is a moderate concentration of glycol 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 INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>GFL0092233</b>	---	---
Sample Date	Client Info			<b>26 Jan 2024</b>	---	---
Machine Age	hrs	Client Info		<b>26377</b>	---	---
Oil Age	hrs	Client Info		<b>500</b>	---	---
Oil Changed	Client Info			<b>Changed</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>0.2	<b>NEG</b>	---	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>100	<b>15</b>	---	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Nickel	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>2</b>	---	---
Lead	ppm	ASTM D5185(m)	>40	<b>10</b>	---	---
Copper	ppm	ASTM D5185(m)	>330	<b>4</b>	---	---
Tin	ppm	ASTM D5185(m)	>15	<b>0</b>	---	---
Antimony	ppm	ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	<b>34</b>	---	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	60	<b>98</b>	---	---
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	1010	<b>772</b>	---	---
Calcium	ppm	ASTM D5185(m)	1070	<b>1031</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	1150	<b>1035</b>	---	---
Zinc	ppm	ASTM D5185(m)	1270	<b>1016</b>	---	---
Sulfur	ppm	ASTM D5185(m)	2060	<b>2421</b>	---	---
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	<b>30</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>▲ 1258</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>▲ 591</b>	---	---
Fuel	%	ASTM D7593*	>5	<b>▲ 6.4</b>	---	---
Glycol	%	ASTM D7922*		<b>▲ 0.085</b>	---	---

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0</b>	---	---
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.9</b>	---	---
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>20.0</b>	---	---

