

### **OIL ANALYSIS REPORT**

# Area [1246223] 351018

#### Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL)

#### DIAGNOSIS

#### Recommendation

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

GAL)				Mar2024		
SAMPLE INFOR		N method	limit/base	current	history1	history2
			in the babb			
Sample Number		Client Info		GFL0107924		
Sample Date		Client Info		22 Mar 2024		
Machine Age	hrs	Client Info		8803		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Water		WC Method	>0.2	NEG		
	0				late to must	history.0
WEAR METAL	-5	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>110	4		
Chromium	ppm	ASTM D5185(m)	>4	0		
Nickel	ppm	ASTM D5185(m)	>2	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>2	0		
Aluminum	ppm	ASTM D5185(m)	>25	<1		
Lead	ppm	ASTM D5185(m)	>45	0		
Copper	ppm	ASTM D5185(m)	>85	<1		
Tin	ppm	ASTM D5185(m)	>4	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	0	160		
Barium	ppm	ASTM D5185(m)		0		
Molybdenum	ppm	ASTM D5185(m)	60	<1		
Manganese	ppm	ASTM D5185(m)	0	0		
Magnesium	ppm	ASTM D5185(m)	1010	33		
Calcium	ppm	ASTM D5185(m)	1070	2054		
Phosphorus	ppm	ASTM D5185(m)	1150	931		
Zinc	ppm	ASTM D5185(m)	1270	1074		
Sulfur	ppm	ASTM D5185(m)	2060	2793		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS _	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>30	2		
Sodium	ppm	ASTM D5185(m)	>00	2		
Potassium	ppm	ASTM D5185(m) ASTM D5185(m)	>20	6		
Glycol	%	ASTM D5165(III) ASTM D7922*	>20	0.0		
Ciycol	/0	AUTIM DT 322		0.0		

Sample Rating Trend

Glycol	%	ASTM D7922*		0.0		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Nitration	Abs/cm	ASTM D7624*	>20	5.6		
Sulfation	Abs/.1mm	ASTM D7415*	>30	20.7		

### NORMAL



## **OIL ANALYSIS REPORT**

