

## **OIL ANALYSIS REPORT**

#### Sample Rating Trend





**Diesel Engine** 

Fluid PETRO CANADA DURON SAE 10W30 (--- GAL)

### DIAGNOSIS

#### Recommendation

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

#### Wear

Metal levels are typical for a components first oil change.

#### 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 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.

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SAMPLE INFOR	RMATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0075843		
Sample Date		Client Info		08 Sep 2023		
Machine Age	hrs	Client Info		624		
Oil Age	hrs	Client Info		624		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINA	ΓΙΟΝ	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	_S	method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>100	46		
Chromium	ppm	ASTM D5185(m)		<1		
Nickel	ppm	ASTM D5185(m)	>4	<1		
Fitanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)	>3	۲ ۲		
Aluminum	ppm	ASTM D5185(m)		9		
_ead		ASTM D5185(m)	>40	2		
Copper	ppm	ASTM D5185(m)		69		
-in	ppm	ASTM D5185(m)	>330	<1		
Antimony	ppm	ASTM D5185(m)	>10	0		
•	ppm					
/anadium	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)	1	32		
Barium	ppm	ASTM D5185(m)	1	1		
Molybdenum	ppm	ASTM D5185(m)	1	21		
Manganese	ppm	ASTM D5185(m)	1	1		
Magnesium	ppm	ASTM D5185(m)	10	774		
Calcium	ppm	ASTM D5185(m)	2942	1352		
Phosphorus	ppm	ASTM D5185(m)	1102	807		
Zinc	ppm	ASTM D5185(m)	1351	922		
Sulfur	ppm	ASTM D5185(m)	3903	2434		
ithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	NTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	12		
Sodium	ppm	ASTM D5185(m)		4		
Potassium	ppm	ASTM D5185(m)	>20	34		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	0		
Vitration	Abs/cm	ASTM D7624*	>20	9.3		
Sulfation	Abs/.1mm	ASTM D7415*	>30	21.2		
FLUID DEGRA	DATIO <u>N</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	16.1		
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