

## **OIL ANALYSIS REPORT**

Sample Rating Trend





Machine Id **413111** Component **Diesel Engine** Fluid

## PETRO CANADA 10W30 (38 LTR)

### DIAGNOSIS

#### Recommendation

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

The condition of the oil is acceptable for the time in service.

50 (50 ETT)				Oct2023		
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0064778		
Sample Date		Client Info		03 Oct 2023		
Machine Age	hrs	Client Info		600		
Oil Age	hrs	Client Info		600		
Oil Changed		Client Info		Changed		
Sample Status				NORMAL		
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0		
Glycol		WC Method		NEG		
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>120	41		
Chromium	ppm	ASTM D5185(m)		<1		
Nickel	ppm	ASTM D5185(m)	>5	3		
Titanium	ppm	ASTM D5185(m)	>2	0		
Silver	ppm	ASTM D5185(m)	>2	1		
Aluminum	ppm	ASTM D5185(m)	>20	7		
Lead	ppm	ASTM D5185(m)	>40	12		
Copper	ppm	ASTM D5185(m)	>330	433		
Tin	ppm	ASTM D5185(m)	>15	4		
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)		204		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		129		
Manganese	ppm	ASTM D5185(m)		5		
Magnesium	ppm	ASTM D5185(m)		676		
Calcium	ppm	ASTM D5185(m)		1510		
Phosphorus	ppm	ASTM D5185(m)		670		
Zinc	ppm	ASTM D5185(m)		795		
Sulfur	ppm	ASTM D5185(m)		1899		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINAN	ITS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>25	37		
Sodium	ppm	ASTM D5185(m)		4		
Potassium	ppm	ASTM D5185(m)	>20	15		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>4	0.4		
Nitration	Abs/cm	ASTM D7624*	>20	10.8		
Sulfation	Abs/.1mm	ASTM D7415*	>30	25.6		
FLUID DEGRA	DAT <u>ION</u>	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	ASTM D7414*	>25	24.3		
		A01WI D7414	220	27.3	C h	
05:56) Rev: 1					Submitte	d By: Keith Zehr

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