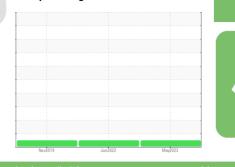


## **OIL ANALYSIS REPORT**

# Watkins Block Truck Shop Omaha 208 [Watkins Block Truck Shop Omaha]

Front Diesel Engine

### PETRO CANADA 10W30 (--- GAL)



Sample Rating Trend



NORMAL

#### SAMPLE INFORMATION method SBP0002229 SBP22426040 SBP0000263 Sample Number **Client Info** Sample Date Client Info 18 May 2023 13 Jun 2022 11 Nov 2019 Machine Age mls **Client Info** 69717 56790 10044 Oil Age mls Client Info 12843 11048 5352 Oil Changed Client Info Changed Changed Changed NORMAL Sample Status NORMAL NORMAL CONTAMINATION Fuel >3.0 <1.0 WC Method <1.0 <1.0 Water WC Method >0.2 NEG NEG NEG Glycol WC Method NEG NEG 0.0 WEAR METALS >120 12 12 9 Iron ppm ASTM D5185m ASTM D5185m >20 <1 0 Chromium ppm <1 0 Nickel >5 <1 0 ppm ASTM D5185m Titanium ppm ASTM D5185m >2 <1 0 0 Silver ASTM D5185m >2 0 0 <1 ppm Aluminum >20 3 5 8 ppm ASTM D5185m Lead ASTM D5185m >40 <1 1 0 ppm ASTM D5185m >330 2 2 Copper ppm 170 2 1 Tin ppm ASTM D5185m >15 1 Vanadium ppm ASTM D5185m <1 0 0 Cadmium 0 0 0 ASTM D5185m ppm Boron mag ASTM D5185m 26 23 222 Barium ASTM D5185m 0 0 0 ppm Molybdenum ASTM D5185m 39 14 109 ppm ASTM D5185m <1 0 Manganese ppm 1 Magnesium ASTM D5185m 882 730 643 ppm Calcium ppm ASTM D5185m 1269 1342 1454 Phosphorus ASTM D5185m 916 740 763 ppm 896 807 Zinc ppm ASTM D5185m 1131 Sulfur ASTM D5185m 3345 2822 ppm >25 5 Silicon ASTM D5185m 6 10 ppm Sodium ASTM D5185m 4 4 ppm 1 Potassium ASTM D5185m >20 9 11 16 ppm Chlorine ASTM D5185m 0 ppm \_\_\_ **INFRA-RED** Soot % % \*ASTM D7844 >4 0.3 0.3 9.9 Nitration Abs/cm \*ASTM D7624 >20 9.6 \*ACTM D7/15 21 / 22.0 Sulfation Abo/1mm . 20

Sullation	AUS/.111111	A01101410	>00	21.4	22.5	
FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	16.0	16.9	18
Base Number (BN)	mg KOH/g	ASTM D2896		6.6	5.6	

DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

Metal levels are typical for a new component breaking in.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

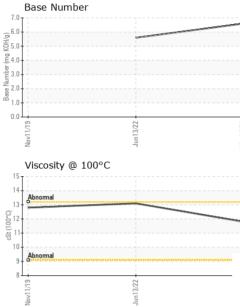
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Report Id: WATOMATS [WUSCAR] 05857062 (Generated: 01/24/2024 17:01:30) Rev: 1

Submitted By: Dave Hozba



# **OIL ANALYSIS REPORT**



ANAB	Sample No. Lab Number Unique Number	: SBP0002229 : 05857062 : 10486417		Recieved : 25 May 2023 Diagnosed : 26 May 2023 Diagnostician : Wes Davis ice at 1-800-237-1369. 7025 scope of accreditation. he simple acceptance decision rule (JCGM			14306 Giles Rd Omaha, NE US 68138 Contact: Dave Hozba daveh@watkinsconcreteblock.com T: (402)894-6518 1106:2012) F:		
d	Laboratory	10 Abnormal 8 6 11 10 2 8 6 11 10 10 10 10 10 10 10 10 10			1.0 ECC00 / Am	Nov11/19	222E1unf Block Truck Shop		
	Part Manual	13 - Abnormal			(D)HOX Bul) Jacquer 3.0				
		Viscosity @ 100°	С		7.0	Base Number			
			Jun13/22		May18/23				
		120 100 80 60							
		Non-ferrous Meta			M				
			Jun 13/22		May18,23				
Jun 13/22		10- schrömium nickel 8- 6-							
		GRAPHS Ferrous Alloys							
		Visc @ 100°C	cSt	ASTM D445		11.8	13.1	12.8	
		FLUID PROPER		method	limit/base	current	history1	history2	
		Emulsified Water Free Water	scalar scalar	*Visual *Visual	>0.2	NEG NEG	NEG NEG		
Junl	May	Odor	scalar	*Visual	NORML	NORML	NORML		
Jun13/22 -	May18/23 +	Appearance	scalar	*Visual	NORML	NORML	NORML		
		Debris Sand/Dirt	scalar scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE NONE		
		Silt	scalar	*Visual	NONE	NONE	NONE		
		Precipitate	scalar	*Visual	NONE	NONE	NONE		
		White Metal Yellow Metal	scalar scalar	*Visual *Visual	NONE NONE	NONE NONE	NONE NONE		
Concernment of the local division of the loc						NONE			