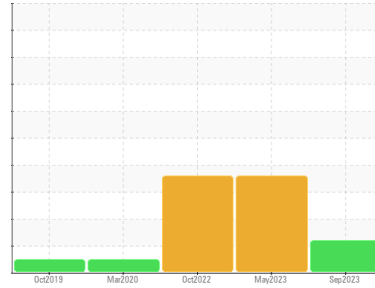




# PROBLEM SUMMARY

Sample Rating Trend



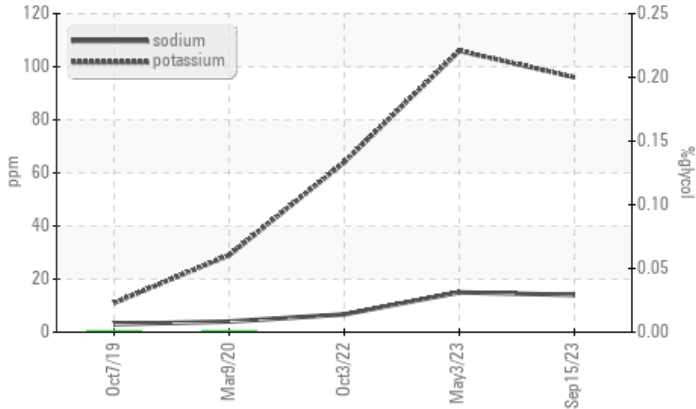
COOL CHEMICALS



Area  
**Watkins Block Truck Shop Omaha**  
 Machine Id  
**64 [Watkins Block Truck Shop Omaha]**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA SUPREME 5W30 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Glycol Contamination



## RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>MARGINAL</b>	ABNORMAL	ABNORMAL
Potassium	ppm	ASTM D5185m	>20	▲ <b>96</b>	▲ 106	▲ 64

Customer Id: WATOMATS  
 Sample No.: SBP0005006  
 Lab Number: 05958977  
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Oil and filter change at the time of sampling has been noted.
Change Filter	---	---	?	Oil and filter change at the time of sampling has been noted.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### 03 May 2023 Diag: Don Baldrige

#### COOL CHEMICALS



We advise that you check for possible coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report



### 03 Oct 2022 Diag: Jonathan Hester

#### COOL CHEMICALS



We advise that you check for possible coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. Sodium and/or potassium levels are high. The BN result indicates that there is suitable alkalinity remaining in the oil.

view report



### 09 Mar 2020 Diag: Wes Davis

#### NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

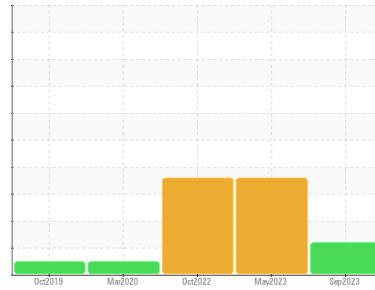
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



COOL CHEMICALS



Area  
**Watkins Block Truck Shop Omaha**  
 Machine Id  
**64 [Watkins Block Truck Shop Omaha]**  
 Component  
**Natural Gas Engine**  
 Fluid  
**PETRO CANADA SUPREME 5W30 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

Sodium and/or potassium levels are high. Test for glycol is negative.

### Fluid Condition

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

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>SBP0005006</b>	SBP0002223	SBP0001659
Sample Date	Client Info	<b>15 Sep 2023</b>	03 May 2023	03 Oct 2022
Machine Age	hrs	<b>7684</b>	7350	6987
Oil Age	hrs	<b>328</b>	363	309
Oil Changed	Client Info	<b>Changed</b>	Changed	Changed
Sample Status		<b>MARGINAL</b>	ABNORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >50	<b>28</b>	▲ 73	▲ 63
Chromium ppm	ASTM D5185m >4	<b>5</b>	▲ 14	▲ 12
Nickel ppm	ASTM D5185m >2	<b>0</b>	<1	0
Titanium ppm	ASTM D5185m	<b>0</b>	<1	<1
Silver ppm	ASTM D5185m >3	<b>0</b>	0	0
Aluminum ppm	ASTM D5185m >9	<b>0</b>	▲ 17	▲ 11
Lead ppm	ASTM D5185m >30	<b>0</b>	0	<1
Copper ppm	ASTM D5185m >35	<b>1</b>	<1	1
Tin ppm	ASTM D5185m >4	<b>&lt;1</b>	1	1
Vanadium ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Cadmium ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 186	<b>78</b>	19	27
Barium ppm	ASTM D5185m <1	<b>0</b>	0	0
Molybdenum ppm	ASTM D5185m 79	<b>79</b>	169	156
Manganese ppm	ASTM D5185m 0	<b>&lt;1</b>	1	<1
Magnesium ppm	ASTM D5185m 578	<b>554</b>	551	502
Calcium ppm	ASTM D5185m 1002	<b>1321</b>	1478	1401
Phosphorus ppm	ASTM D5185m 745	<b>701</b>	725	666
Zinc ppm	ASTM D5185m 837	<b>867</b>	887	829
Sulfur ppm	ASTM D5185m 2502	<b>3500</b>	2486	2482

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >+100	<b>7</b>	23	28
Sodium ppm	ASTM D5185m	<b>14</b>	15	7
Potassium ppm	ASTM D5185m >20	▲ <b>96</b>	▲ 106	▲ 64
Chlorine ppm	ASTM D5185m	<b>---</b>	---	---
Glycol %	*ASTM D2982	<b>---</b>	---	---

## INFRA-RED

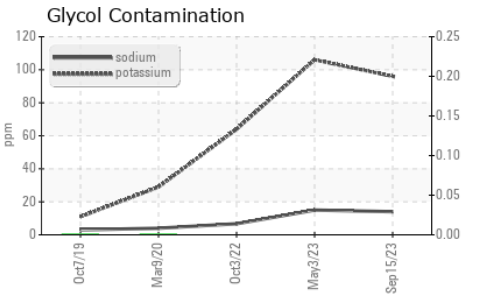
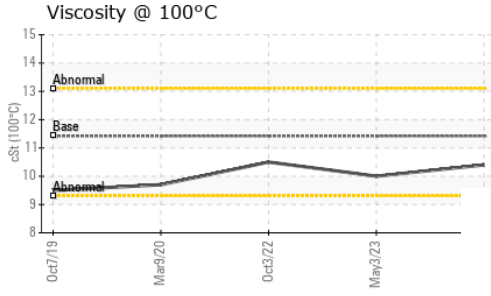
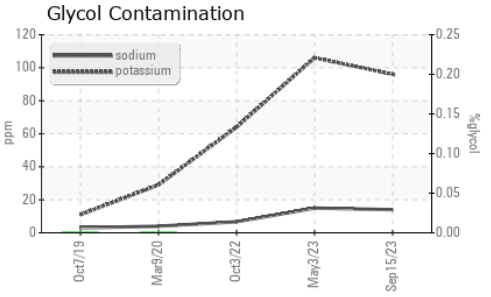
method	limit/base	current	history1	history2
Soot %	*ASTM D7844	<b>0</b>	0	0.1
Nitration Abs/cm	*ASTM D7624 >20	<b>8.5</b>	8.5	9.8
Sulfation Abs/.1mm	*ASTM D7415 >30	<b>18.2</b>	16.9	20.5

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation Abs/.1mm	*ASTM D7414 >25	<b>11.0</b>	10.0	11.2
Base Number (BN) mg KOH/g	ASTM D2896 7.0	<b>4.1</b>	3.5	5.0



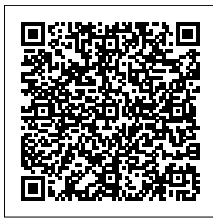
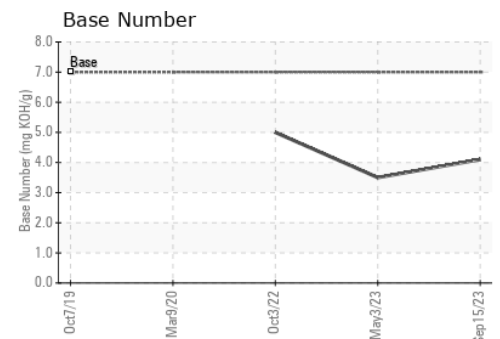
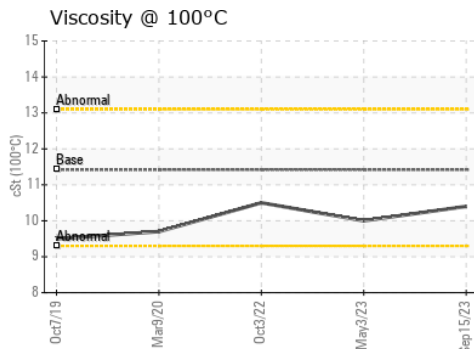
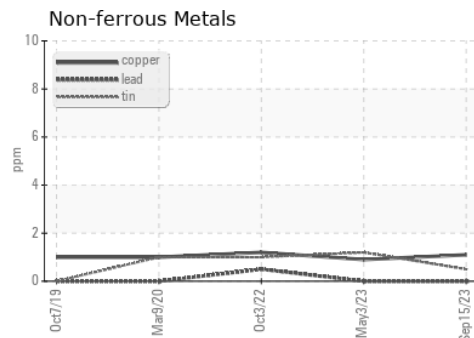
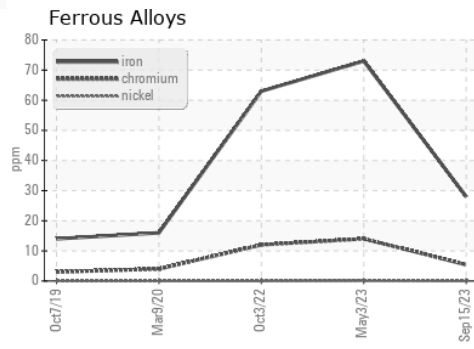
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.42	10.4	10.0

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0005006 **Received** : 22 Sep 2023  
**Lab Number** : 05958977 **Diagnosed** : 26 Sep 2023  
**Unique Number** : 10660190 **Diagnostician** : Jonathan Hester  
**Test Package** : FLEET ( Additional Tests: Glycol )

**Watkins Block Truck Shop Omaha - 602227**  
 14306 Giles Rd  
 Omaha, NE  
 US 68138  
 Contact: Dave Hozba  
 daveh@watkinsconcreteblock.com  
 T: (402)894-6518  
 F:

Certificate L2367  
 To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)