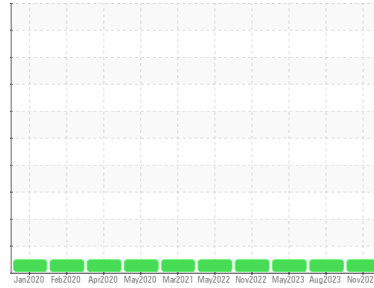




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Area  
**Watkins Block Truck Shop Omaha**  
 Machine Id  
**68 [Watkins Block Truck Shop Omaha]**  
 Component  
**Middle Diesel Engine**  
 Fluid  
**PETRO CANADA DURON SHP 10W30 (--- GAL)**

## DIAGNOSIS

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>SBP0005960</b>	SBP0004678	SBP0002226
Sample Date	Client Info			<b>14 Nov 2023</b>	01 Aug 2023	03 May 2023
Machine Age	hrs Client Info			<b>19115</b>	18468	17831
Oil Age	hrs Client Info			<b>348</b>	306	385
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>5		<b>&lt;1.0</b>	<1.0	<1.0
Water	WC Method	>0.2		<b>NEG</b>	NEG	NEG
Glycol	WC Method			<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>100		<b>8</b>	37	4
Chromium	ppm ASTM D5185m	>20		<b>&lt;1</b>	1	0
Nickel	ppm ASTM D5185m	>4		<b>0</b>	0	0
Titanium	ppm ASTM D5185m			<b>&lt;1</b>	<1	<1
Silver	ppm ASTM D5185m	>3		<b>0</b>	0	0
Aluminum	ppm ASTM D5185m	>20		<b>2</b>	8	<1
Lead	ppm ASTM D5185m	>40		<b>0</b>	0	0
Copper	ppm ASTM D5185m	>330		<b>1</b>	3	1
Tin	ppm ASTM D5185m	>15		<b>&lt;1</b>	1	<1
Vanadium	ppm ASTM D5185m			<b>&lt;1</b>	0	0
Cadmium	ppm ASTM D5185m			<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	2		<b>1</b>	3	11
Barium	ppm ASTM D5185m	0		<b>0</b>	0	0
Molybdenum	ppm ASTM D5185m	50		<b>58</b>	59	55
Manganese	ppm ASTM D5185m	0		<b>&lt;1</b>	<1	<1
Magnesium	ppm ASTM D5185m	950		<b>1015</b>	1012	996
Calcium	ppm ASTM D5185m	1050		<b>1117</b>	1087	1221
Phosphorus	ppm ASTM D5185m	995		<b>1090</b>	1063	1054
Zinc	ppm ASTM D5185m	1180		<b>1344</b>	1287	1272
Sulfur	ppm ASTM D5185m	2600		<b>3458</b>	3842	3744

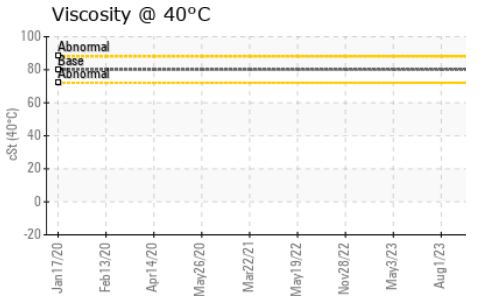
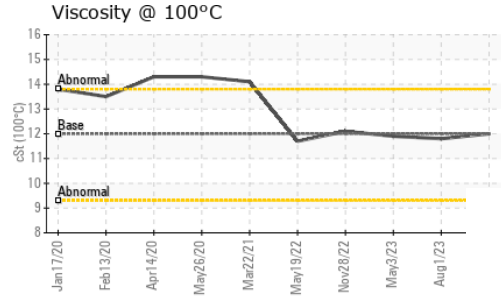
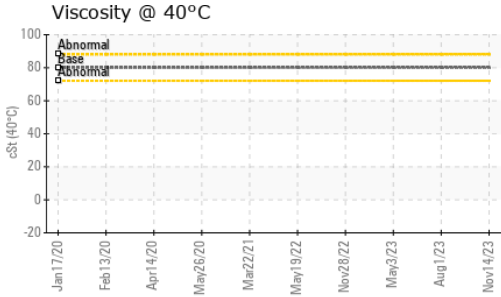
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>25		<b>5</b>	22	3
Sodium	ppm ASTM D5185m			<b>2</b>	2	<1
Potassium	ppm ASTM D5185m	>20		<b>2</b>	2	2

INFRA-RED		method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	>3		<b>0.1</b>	0.2	0.1
Nitration	Abs/cm *ASTM D7624	>20		<b>6.6</b>	6.3	7.1
Sulfation	Abs/.1mm *ASTM D7415	>30		<b>17.5</b>	17.4	15.6

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25		<b>14.4</b>	13.8	13.8
Base Number (BN)	mg KOH/g ASTM D2896			<b>9.3</b>	9.4	7.8



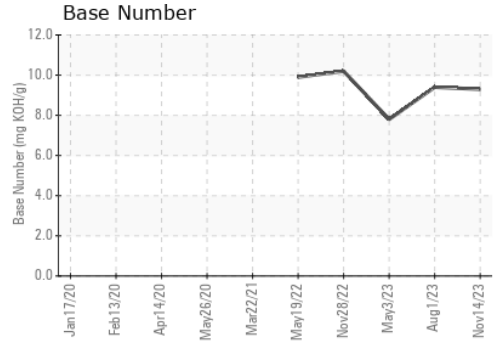
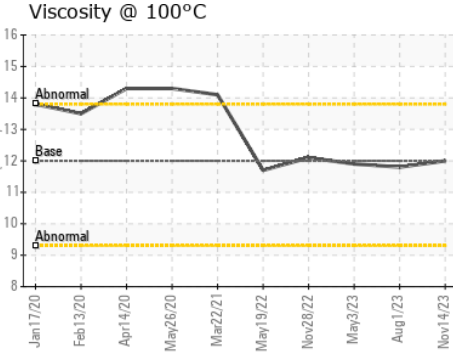
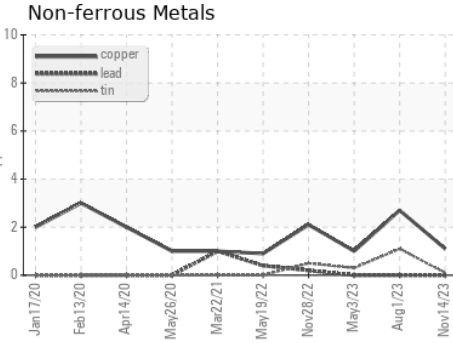
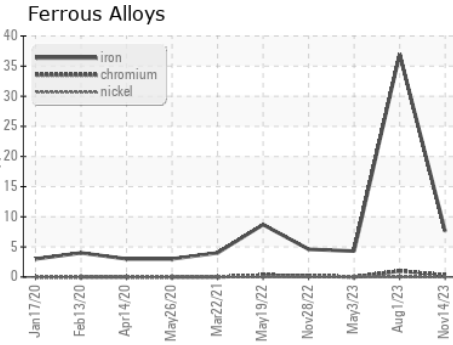
# OIL ANALYSIS REPORT



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	>0.2	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D445	12.00	12.0	11.8	11.9

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0005960 **Received** : 20 Nov 2023  
**Lab Number** : 06013106 **Diagnosed** : 28 Nov 2023  
**Unique Number** : 10752250 **Diagnostician** : Angela Borella  
**Test Package** : FLEET ( Additional Tests: KV40 )

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

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)