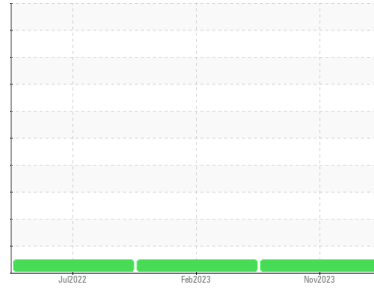




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Watkins Block Truck Shop Omaha
 Machine Id
2020 Yale [Watkins Block Truck Shop Omaha]
 Component
Middle Propane Engine
 Fluid
PETRO CANADA 10W30 (10 QTS)

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	SBP0005961	SBP0002193	SBP0000244
Sample Date	Client Info	13 Nov 2023	03 Feb 2023	12 Jul 2022
Machine Age	hrs	4759	4097	3406
Oil Age	hrs	315	348	394
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >100	10	2	3
Chromium	ppm ASTM D5185m >25	<1	0	<1
Nickel	ppm ASTM D5185m >5	0	0	0
Titanium	ppm ASTM D5185m	<1	0	0
Silver	ppm ASTM D5185m >5	0	0	0
Aluminum	ppm ASTM D5185m >20	4	<1	2
Lead	ppm ASTM D5185m >25	0	0	<1
Copper	ppm ASTM D5185m >35	2	0	1
Tin	ppm ASTM D5185m >8	<1	0	<1
Vanadium	ppm ASTM D5185m	<1	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	4	<1	29
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	59	55	42
Manganese	ppm ASTM D5185m	<1	<1	<1
Magnesium	ppm ASTM D5185m	1004	850	837
Calcium	ppm ASTM D5185m	1163	1086	1154
Phosphorus	ppm ASTM D5185m	1087	934	931
Zinc	ppm ASTM D5185m	1347	1109	1124
Sulfur	ppm ASTM D5185m	3421	3439	3452

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	12	2	3
Sodium	ppm ASTM D5185m	3	2	<1
Potassium	ppm ASTM D5185m >20	5	11	1

INFRA-RED

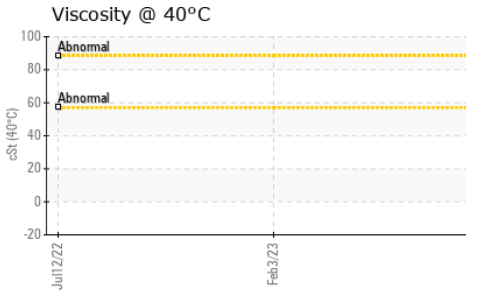
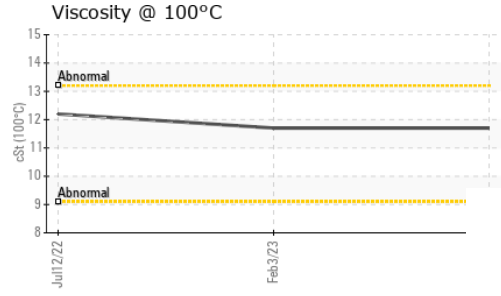
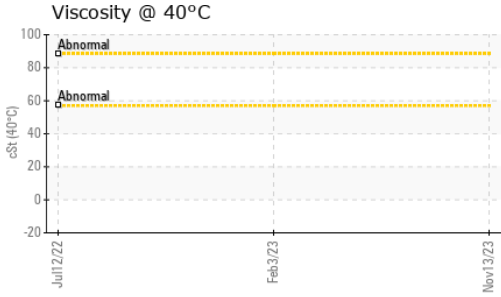
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	0.1	0.1	0.1
Nitration	Abs/cm *ASTM D7624 >20	6.8	7.7	8.2
Sulfation	Abs/.1mm *ASTM D7415 >30	18.4	18.2	19.9

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	15.2	15.4	15.6
Base Number (BN)	mg KOH/g ASTM D2896	8.9	9.1	9.8



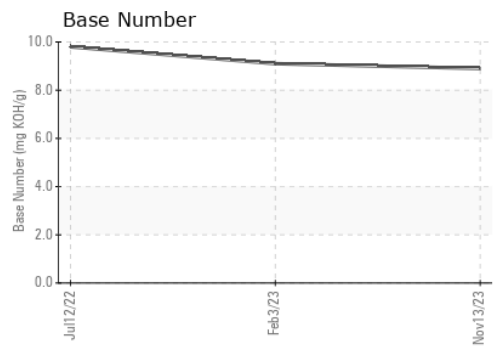
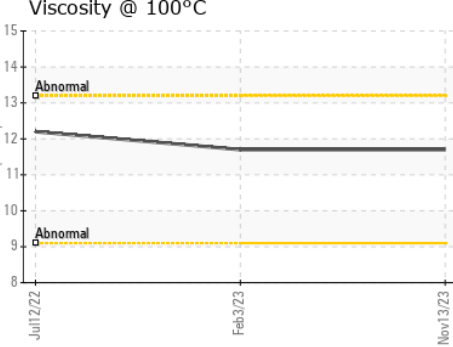
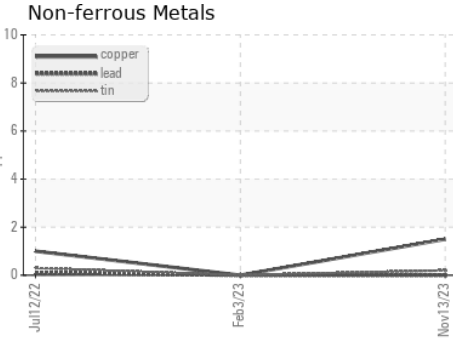
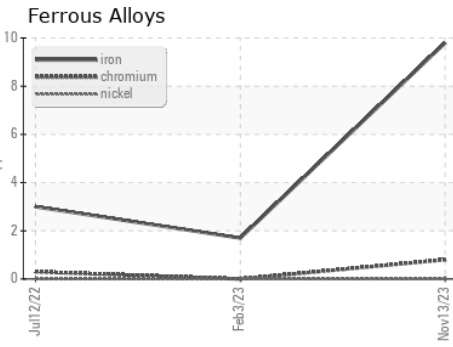
OIL ANALYSIS REPORT



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	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	11.7	11.7	12.2

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0005961 **Received** : 20 Nov 2023
Lab Number : **06013105** **Diagnosed** : 28 Nov 2023
Unique Number : 10752249 **Diagnostician** : Angela Borella
Test Package : FLEET (Additional Tests: KV40)

Watkins Block Truck Shop Omaha - 602227
 14306 Giles Rd
 Omaha, NE
 US 68138
 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)