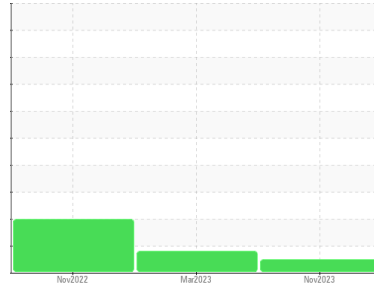




OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Area
WATKINS BLOCK TRUCK SHOP OMAHA
 Machine Id
117 Chevy Malibu [WATKINS BLOCK TRUCK SHOP OMAHA]
 Component
Gasoline Engine
 Fluid
MOBIL MOBIL1 SAE 5W20 (--- 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 acceptable for the time in service.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		SBP0005956	SBP0002199	SBP0001653
Sample Date	Client Info		21 Nov 2023	29 Mar 2023	03 Nov 2022
Machine Age	mls Client Info		104897	87945	78938
Oil Age	mls Client Info		8221	9007	9706
Oil Changed	Client Info		Changed	Changed	Changed
Sample Status			NORMAL	MARGINAL	ABNORMAL

CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>4.0	<1.0	▲ 2.4	<1.0
Water	WC Method	>0.2	NEG	NEG	NEG
Glycol	WC Method		NEG	NEG	NEG

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m	>150	9	37	10
Chromium	ppm ASTM D5185m	>20	<1	<1	<1
Nickel	ppm ASTM D5185m	>5	0	0	0
Titanium	ppm ASTM D5185m		0	0	0
Silver	ppm ASTM D5185m	>2	0	0	0
Aluminum	ppm ASTM D5185m	>40	2	7	2
Lead	ppm ASTM D5185m	>50	0	0	0
Copper	ppm ASTM D5185m	>155	<1	<1	1
Tin	ppm ASTM D5185m	>10	0	0	0
Vanadium	ppm ASTM D5185m		0	<1	<1
Cadmium	ppm ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m		23	8	18
Barium	ppm ASTM D5185m		2	0	0
Molybdenum	ppm ASTM D5185m		68	73	70
Manganese	ppm ASTM D5185m		0	<1	<1
Magnesium	ppm ASTM D5185m		466	502	481
Calcium	ppm ASTM D5185m		1141	1255	1193
Phosphorus	ppm ASTM D5185m		621	692	643
Zinc	ppm ASTM D5185m		736	905	793
Sulfur	ppm ASTM D5185m		2888	2642	2837

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	>30	29	19	▲ 34
Sodium	ppm ASTM D5185m	>400	2	3	3
Potassium	ppm ASTM D5185m	>20	2	5	2

INFRA-RED

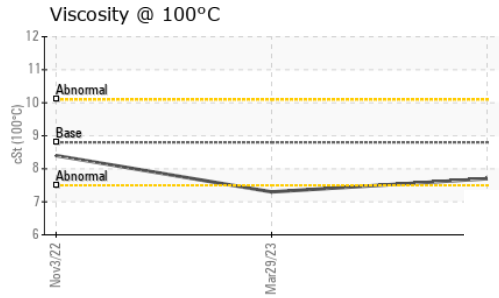
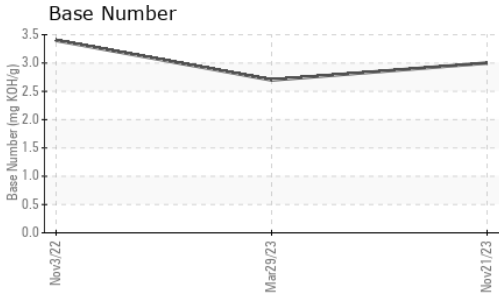
	method	limit/base	current	history1	history2
Soot %	% *ASTM D7844		0.1	0.1	0.1
Nitration	Abs/cm *ASTM D7624	>20	13.2	13.3	14.7
Sulfation	Abs/.1mm *ASTM D7415	>30	27.5	26.2	30.8

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414	>25	22.0	21.5	24.9
Base Number (BN)	mg KOH/g ASTM D2896		3.0	2.7	3.4



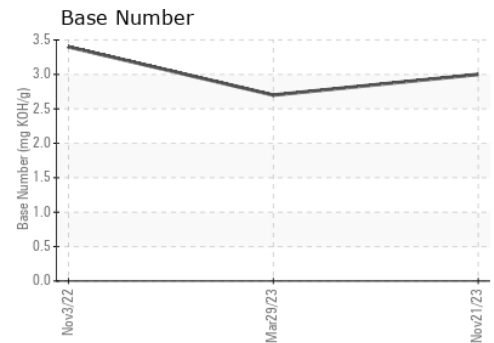
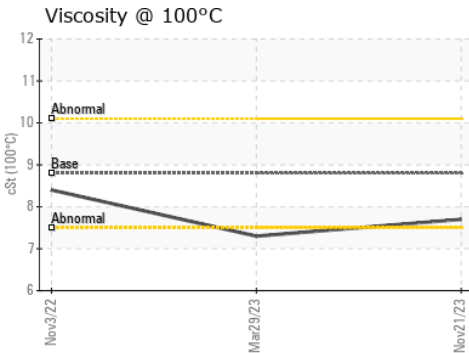
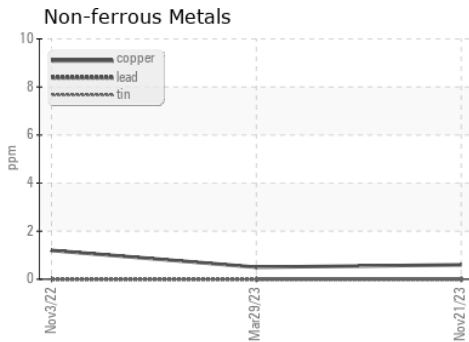
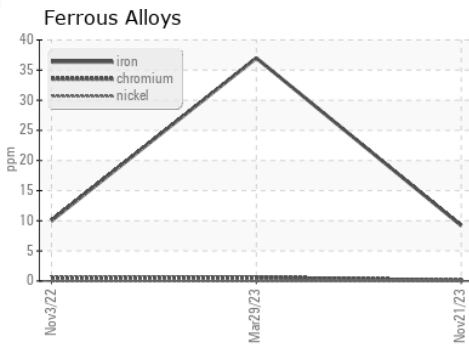
OIL ANALYSIS REPORT



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 8.8	7.7	7.3	▲ 8.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0005956 **Received** : 05 Dec 2023
Lab Number : **06025526** **Diagnosed** : 07 Dec 2023
Unique Number : 10770026 **Diagnostician** : Sean Felton
Test Package : FLEET

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)