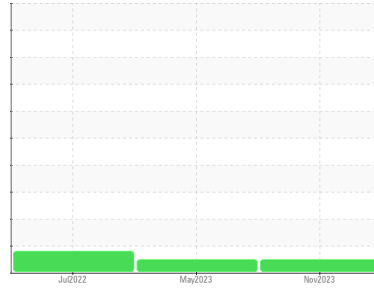




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Watkins Block Truck Shop Omaha
 Machine Id
02 Nissan [Watkins Block Truck Shop Omaha]
 Component
Middle Propane Engine
 Fluid
PETRO CANADA SUPREME 5W30 (4 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 acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	SBP0005954	SBP0002225	SBP0000239
Sample Date	Client Info	21 Nov 2023	03 May 2023	05 Jul 2022
Machine Age	hrs	4159	3509	2323
Oil Age	hrs	313	411	398
Oil Changed	Client Info	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	ABNORMAL

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	6	32	19
Chromium	ppm ASTM D5185m >25	<1	2	2
Nickel	ppm ASTM D5185m >5	0	0	<1
Titanium	ppm ASTM D5185m	0	<1	0
Silver	ppm ASTM D5185m >5	0	0	<1
Aluminum	ppm ASTM D5185m >20	2	5	4
Lead	ppm ASTM D5185m >25	0	0	<1
Copper	ppm ASTM D5185m >35	<1	<1	1
Tin	ppm ASTM D5185m >8	2	4	▲ 10
Vanadium	ppm ASTM D5185m	0	0	<1
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m 186	131	100	46
Barium	ppm ASTM D5185m <1	2	0	0
Molybdenum	ppm ASTM D5185m 79	69	87	170
Manganese	ppm ASTM D5185m 0	0	<1	<1
Magnesium	ppm ASTM D5185m 578	497	582	559
Calcium	ppm ASTM D5185m 1002	1200	1402	1493
Phosphorus	ppm ASTM D5185m 745	678	719	754
Zinc	ppm ASTM D5185m 837	800	902	910
Sulfur	ppm ASTM D5185m 2502	2989	3334	2812

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	6	8	12
Sodium	ppm ASTM D5185m	1	0	2
Potassium	ppm ASTM D5185m >20	1	3	<1

INFRA-RED

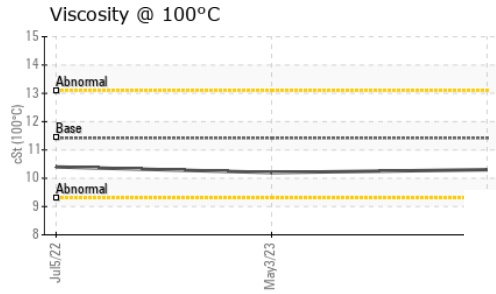
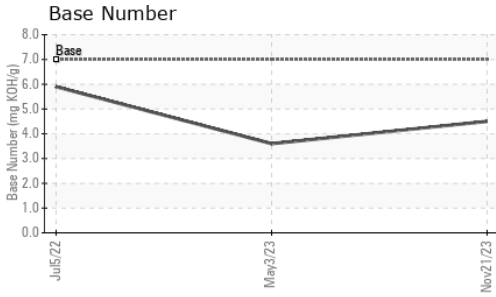
method	limit/base	current	history1	history2
Soot %	% *ASTM D7844	0	0	0.1
Nitration	Abs/cm *ASTM D7624 >20	7.7	8.0	8.5
Sulfation	Abs/.1mm *ASTM D7415 >30	16.6	15.3	18.4

FLUID DEGRADATION

method	limit/base	current	history1	history2
Oxidation	Abs/.1mm *ASTM D7414 >25	10.6	9.9	10.6
Base Number (BN)	mg KOH/g ASTM D2896 7.0	4.5	3.6	5.9



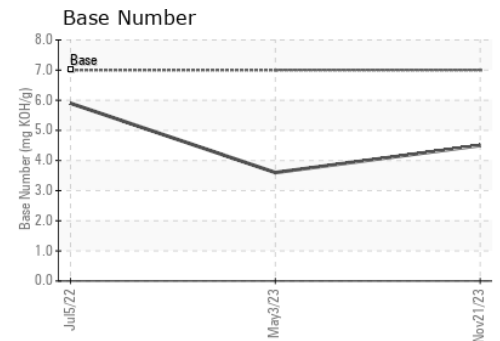
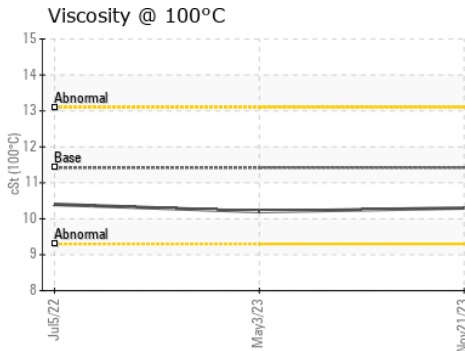
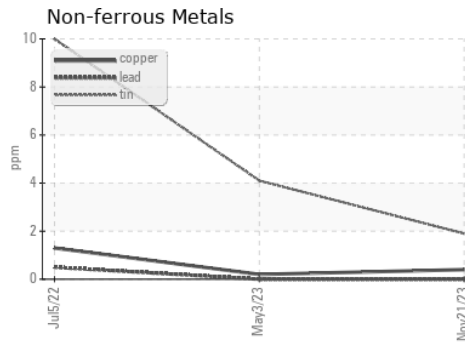
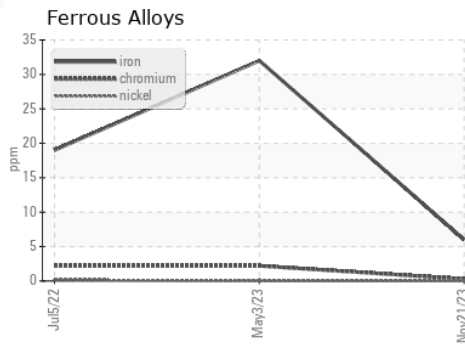
OIL ANALYSIS REPORT



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	10.3	10.2	10.4

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : SBP0005954
 Lab Number : 06025525
 Unique Number : 10770025
 Test Package : FLEET

Received : 05 Dec 2023
 Diagnosed : 07 Dec 2023
 Diagnostician : Sean Felton

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)