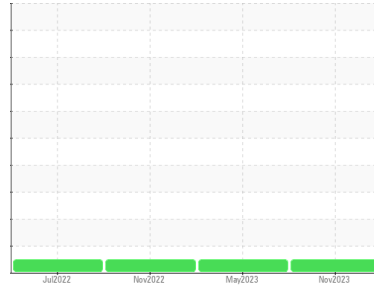




OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area
Watkins Block Truck Shop Omaha
 Machine Id
03 Nissan Forklift [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 suitable for further service.

SAMPLE INFORMATION

| method | limit/base | current | history1 | history2 | |
|---------------|-------------|--------------------|-------------|-------------|------|
| Sample Number | Client Info | SBP0005962 | SBP0002230 | SBP0002219 | |
| Sample Date | Client Info | 13 Nov 2023 | 18 May 2023 | 28 Nov 2022 | |
| Machine Age | hrs | Client Info | 4821 | 4132 | 3346 |
| Oil Age | hrs | Client Info | 281 | 355 | 321 |
| 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 | 16 | 8 | 13 |
| Chromium | ppm | ASTM D5185m >25 | 3 | 1 | 2 |
| Nickel | ppm | ASTM D5185m >5 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m >5 | 0 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m >20 | 5 | 2 | 4 |
| Lead | ppm | ASTM D5185m >25 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185m >35 | <1 | 1 | <1 |
| Tin | ppm | ASTM D5185m >8 | 6 | 4 | 6 |
| Vanadium | ppm | ASTM D5185m | <1 | <1 | <1 |
| Cadmium | ppm | ASTM D5185m | 0 | 0 | 0 |

ADDITIVES

| method | limit/base | current | history1 | history2 | |
|------------|------------|------------------|--------------|----------|------|
| Boron | ppm | ASTM D5185m 186 | 142 | 138 | 55 |
| Barium | ppm | ASTM D5185m <1 | 0 | 0 | <1 |
| Molybdenum | ppm | ASTM D5185m 79 | 68 | 74 | 165 |
| Manganese | ppm | ASTM D5185m 0 | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m 578 | 581 | 581 | 524 |
| Calcium | ppm | ASTM D5185m 1002 | 1325 | 1352 | 1411 |
| Phosphorus | ppm | ASTM D5185m 745 | 766 | 735 | 727 |
| Zinc | ppm | ASTM D5185m 837 | 936 | 914 | 889 |
| Sulfur | ppm | ASTM D5185m 2502 | 3216 | 3380 | 2546 |

CONTAMINANTS

| method | limit/base | current | history1 | history2 | |
|-----------|------------|-----------------|-----------|----------|---|
| Silicon | ppm | ASTM D5185m >50 | 19 | 14 | 8 |
| Sodium | ppm | ASTM D5185m | 2 | 3 | 1 |
| Potassium | ppm | ASTM D5185m >20 | 3 | 4 | 1 |

INFRA-RED

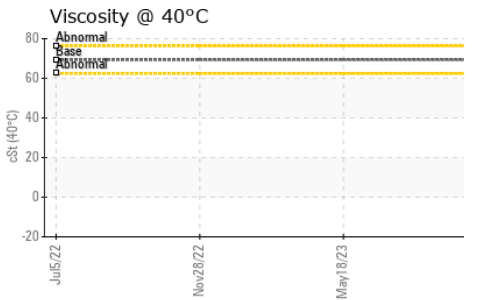
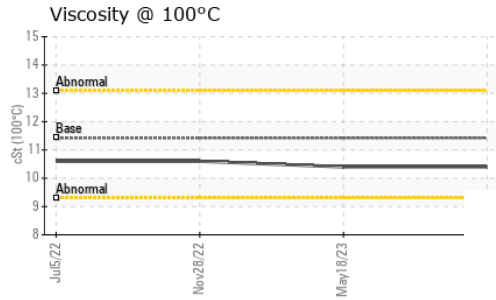
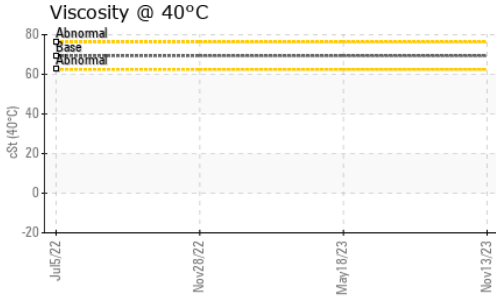
| method | limit/base | current | history1 | history2 | |
|-----------|------------|-----------------|-------------|----------|------|
| Soot % | % | *ASTM D7844 | 0.1 | 0 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 >20 | 7.5 | 7.8 | 7.8 |
| Sulfation | Abs/.1mm | *ASTM D7415 >30 | 16.7 | 16.5 | 17.6 |

FLUID DEGRADATION

| method | limit/base | current | history1 | history2 | |
|------------------|------------|-----------------|-------------|----------|------|
| Oxidation | Abs/.1mm | *ASTM D7414 >25 | 10.0 | 10.0 | 10.2 |
| Base Number (BN) | mg KOH/g | ASTM D2896 7.0 | 5.4 | 5.6 | 6.0 |



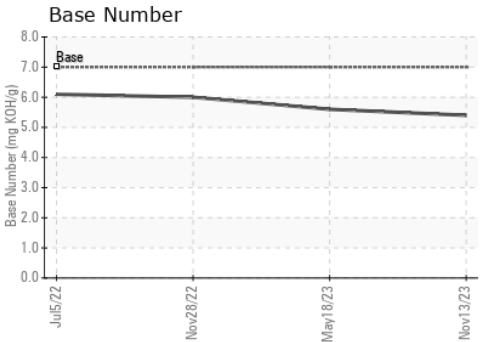
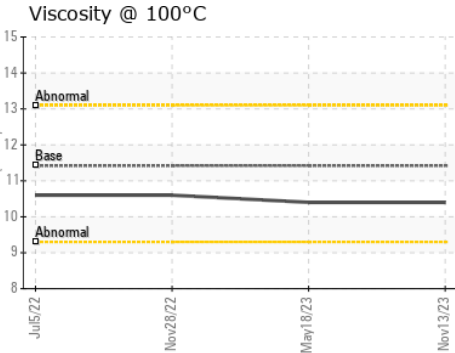
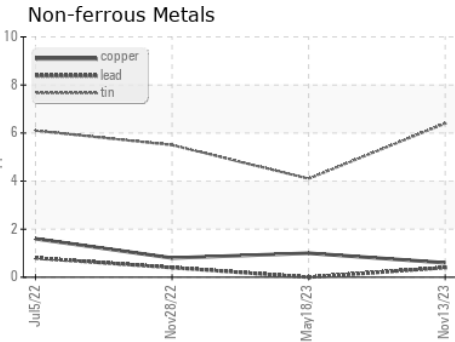
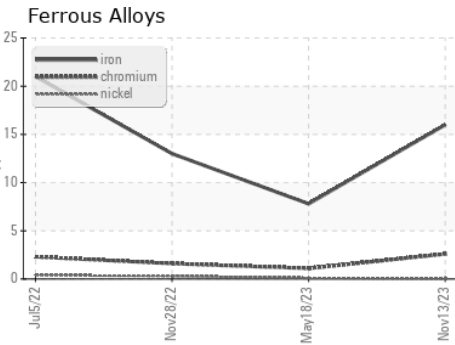
OIL ANALYSIS REPORT



| 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 | 10.4 | 10.6 |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : SBP0005962 **Received** : 20 Nov 2023
Lab Number : **06013107** **Diagnosed** : 28 Nov 2023
Unique Number : 10752251 **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)