



OIL ANALYSIS REPORT

|                 |        |
|-----------------|--------|
| WEAR            | NORMAL |
| CONTAMINATION   | NORMAL |
| FLUID CONDITION | NORMAL |

Area  
**DE Samples - CAT LAB**  
Machine Id  
**KOMATSU HAUL TRUCK 6526 (S/N 10125)**  
Component  
**Rear Right Final Drive**  
Fluid  
**TULCO LUBSOIL TO-4 50 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>TO10003708</b>  | TO10003044  | TO10002078  |
| Sample Date    |     | Client Info |           | <b>02 Jul 2024</b> | 07 Dec 2023 | 18 Jul 2023 |
| Machine Age    | hrs | Client Info |           | <b>31653</b>       | 31166       | 30719       |
| Oil Age        | hrs | Client Info |           | <b>2473</b>        | 1986        | 1539        |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | <b>None</b>        | None        | None        |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

**WEAR**

All component wear rates are normal.

| PQ           | UOM    | Method      | Limit/Abn | Current      | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ           |        | ASTM D8184  |           | <b>43</b>    | 42       | 40       |
| Iron         | ppm    | ASTM D5185m | >500      | <b>41</b>    | 29       | 28       |
| Chromium     | ppm    | ASTM D5185m | >10       | <b>&lt;1</b> | <1       | <1       |
| Nickel       | ppm    | ASTM D5185m | >10       | <b>0</b>     | 0        | 0        |
| Titanium     | ppm    | ASTM D5185m |           | <b>&lt;1</b> | 0        | 0        |
| Silver       | ppm    | ASTM D5185m |           | <b>0</b>     | 0        | 0        |
| Aluminum     | ppm    | ASTM D5185m | >25       | <b>1</b>     | 2        | 2        |
| Lead         | ppm    | ASTM D5185m | >25       | <b>0</b>     | 0        | 0        |
| Copper       | ppm    | ASTM D5185m | >50       | <b>1</b>     | 1        | 0        |
| Tin          | ppm    | ASTM D5185m | >10       | <b>0</b>     | 0        | 0        |
| Vanadium     | ppm    | ASTM D5185m |           | <b>0</b>     | 0        | 0        |
| White Metal  | scalar | *Visual     | NONE      | <b>NONE</b>  | NONE     | NONE     |
| Yellow Metal | scalar | *Visual     | NONE      | <b>NONE</b>  | NONE     | NONE     |

**CONTAMINATION**

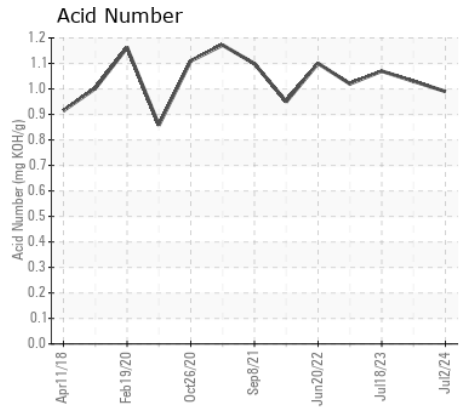
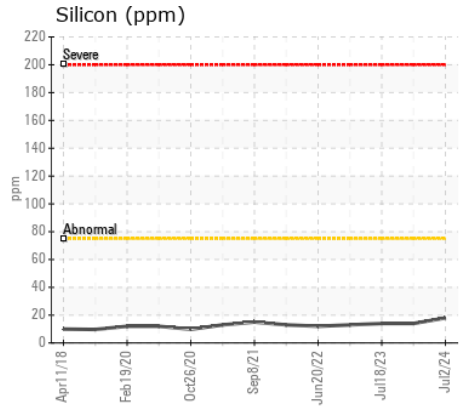
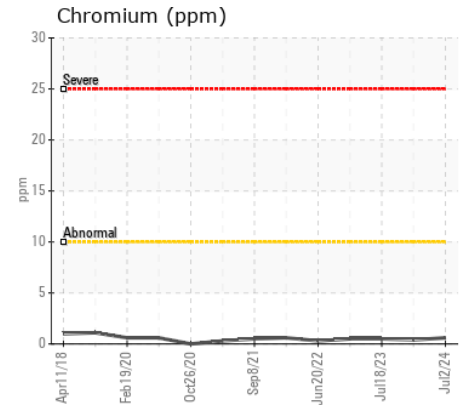
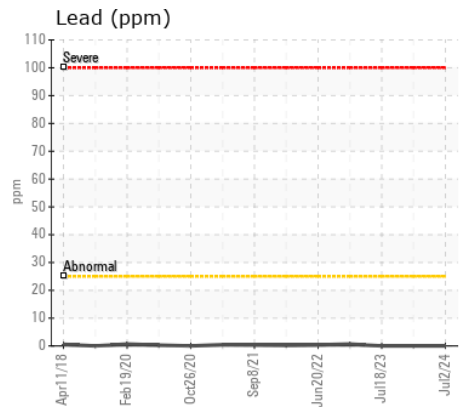
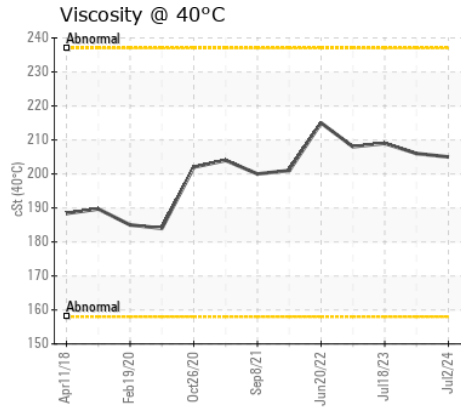
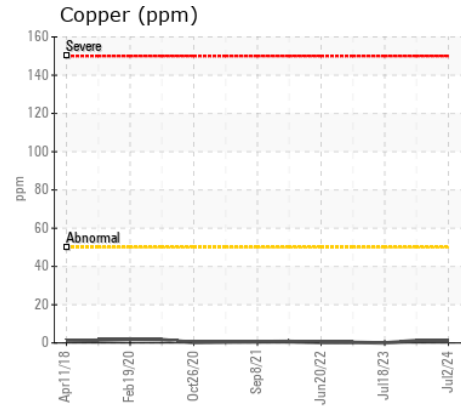
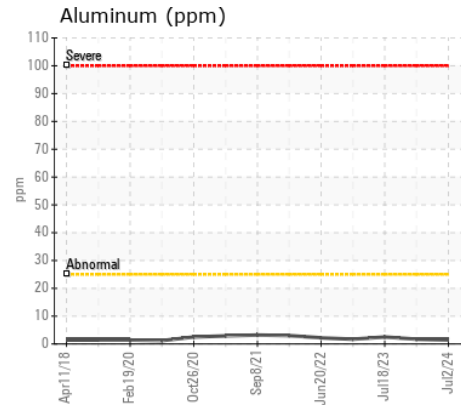
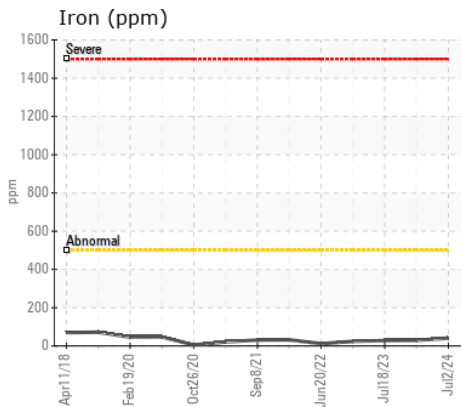
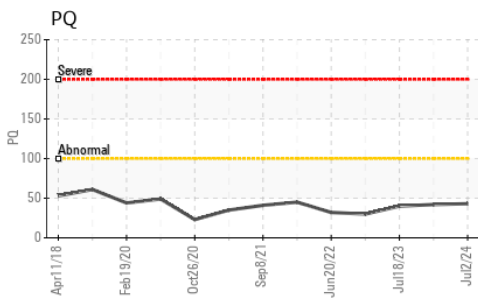
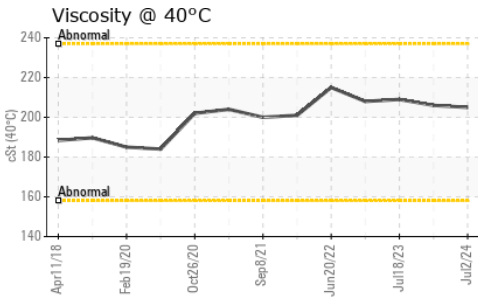
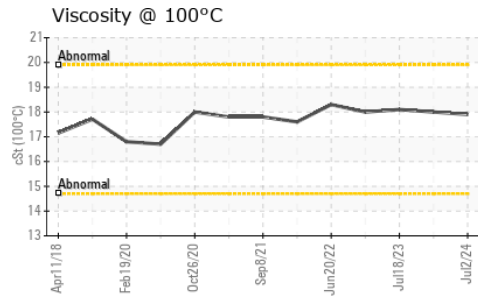
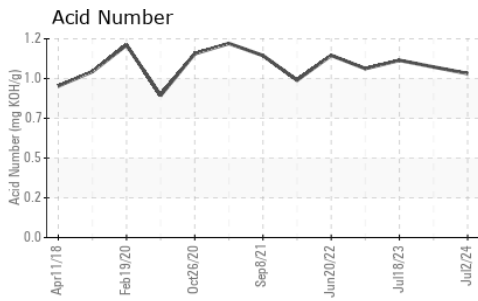
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >75   | <b>18</b>    | 14    | 14    |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | 0     | <1    |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | LIGHT | NONE  |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Emulsified Water | scalar | *Visual     | >0.2  | <b>NEG</b>   | NEG   | NEG   |

**FLUID CONDITION**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

|                      |          |             |  |              |      |      |
|----------------------|----------|-------------|--|--------------|------|------|
| Sodium               | ppm      | ASTM D5185m |  | <b>3</b>     | 6    | 4    |
| Boron                | ppm      | ASTM D5185m |  | <b>&lt;1</b> | 0    | 0    |
| Barium               | ppm      | ASTM D5185m |  | <b>0</b>     | 0    | 0    |
| Molybdenum           | ppm      | ASTM D5185m |  | <b>0</b>     | 0    | <1   |
| Manganese            | ppm      | ASTM D5185m |  | <b>0</b>     | <1   | <1   |
| Magnesium            | ppm      | ASTM D5185m |  | <b>12</b>    | 14   | 20   |
| Calcium              | ppm      | ASTM D5185m |  | <b>3670</b>  | 3607 | 4042 |
| Phosphorus           | ppm      | ASTM D5185m |  | <b>870</b>   | 852  | 923  |
| Zinc                 | ppm      | ASTM D5185m |  | <b>1080</b>  | 1035 | 1168 |
| Sulfur               | ppm      | ASTM D5185m |  | <b>4630</b>  | 4719 | 6220 |
| Acid Number (AN)     | mg KOH/g | ASTM D8045  |  | <b>0.99</b>  | 1.03 | 1.07 |
| Visc @ 40°C          | cSt      | ASTM D445   |  | <b>205</b>   | 206  | 209  |
| Visc @ 100°C         | cSt      | ASTM D445   |  | <b>17.9</b>  | 18.0 | 18.1 |
| Viscosity Index (VI) | Scale    | ASTM D2270  |  | <b>95</b>    | 95   | 94   |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : TO10003708

**Lab Number** : 06230878

**Unique Number** : 11114371

**Test Package** : MOB 2 ( Additional Tests: KV100, PQ, VI )

**Received** : 08 Jul 2024

**Tested** : 10 Jul 2024

**Diagnosed** : 10 Jul 2024 - Wes Davis

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)

**ANCHOR STONE TULSA ROCK**

TULSA ROCK QUARRY, 66TH ST N 145TH AVENUE

TULSA, OK

US 74137

Contact: MIKE SNYDER

msnyder@anchorstoneco.com

T: (417)850-9635

F: