



OIL ANALYSIS REPORT

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

Machine Id
BALER
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|------|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | PTK0005317 | PTK0002439 | PTK0000224 |
| Sample Date | | Client Info | | 18 Jun 2024 | 07 Dec 2022 | 14 Jun 2021 |
| Machine Age | mths | Client Info | | 0 | 0 | 0 |
| Oil Age | mths | Client Info | | 0 | 0 | 0 |
| Filter Age | mths | Client Info | | 0 | 4 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | N/A |
| Filter Changed | | Client Info | | N/A | Changed | N/A |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|-------------|------|------|
| Iron | ppm | ASTM D5185m | >20 | 3 | <1 | <1 |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >75 | 9 | 20 | 35 |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

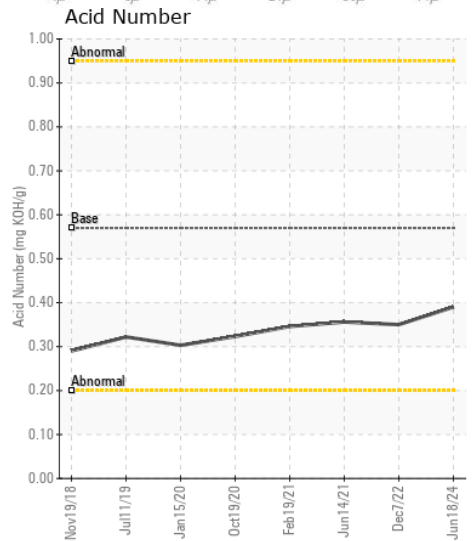
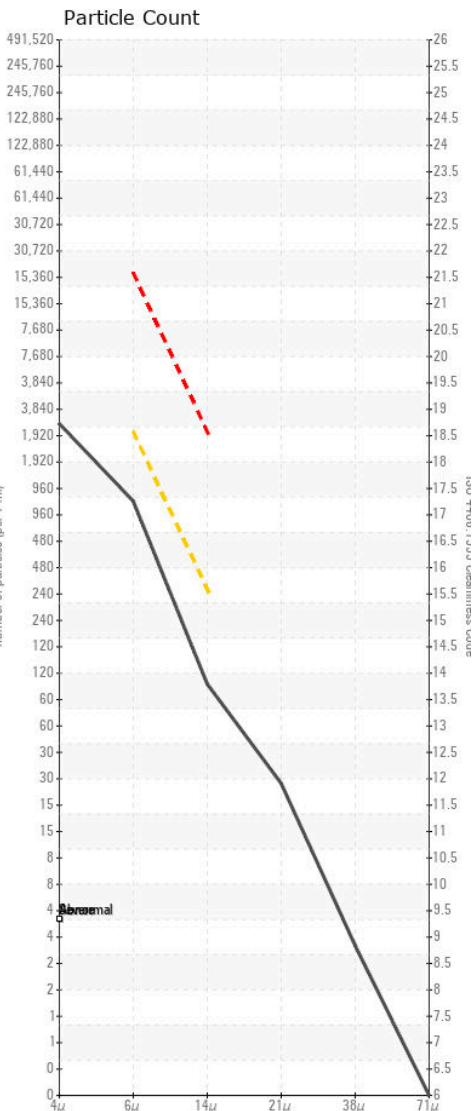
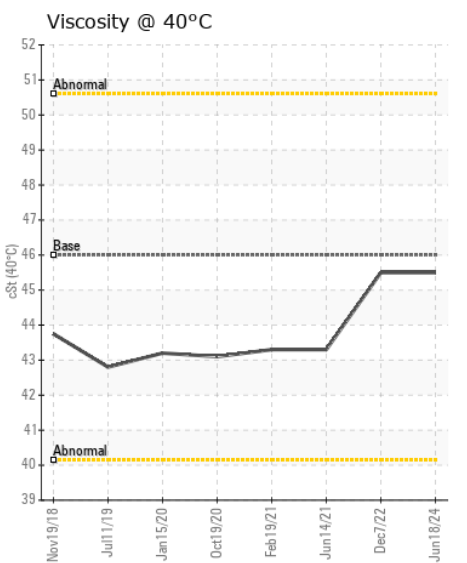
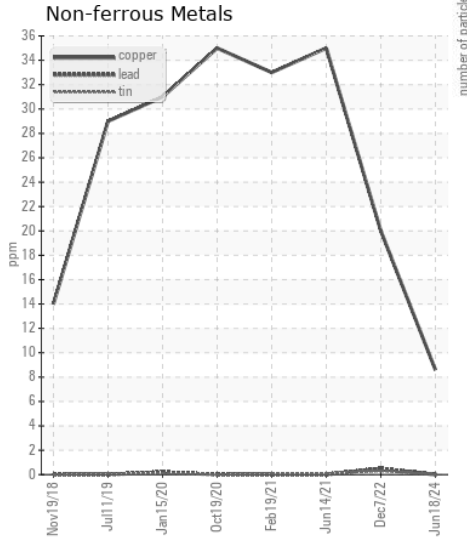
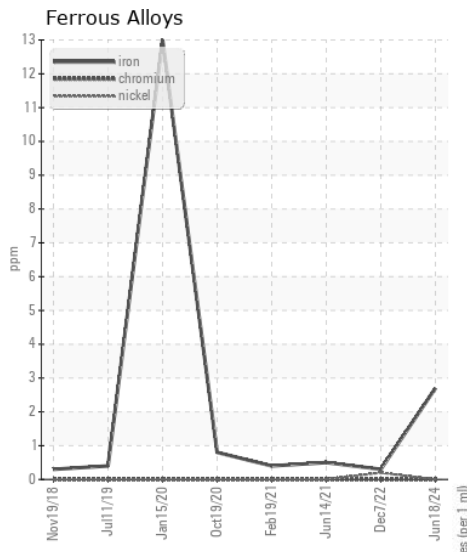
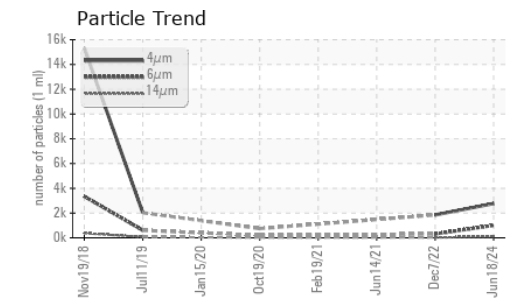
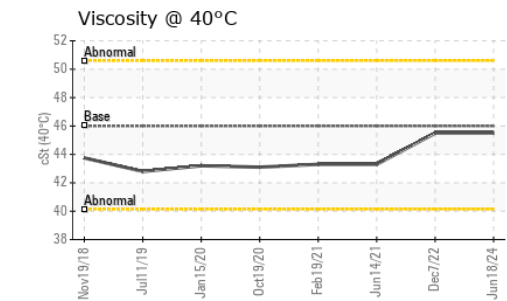
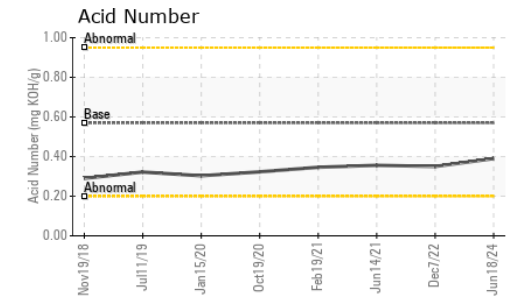
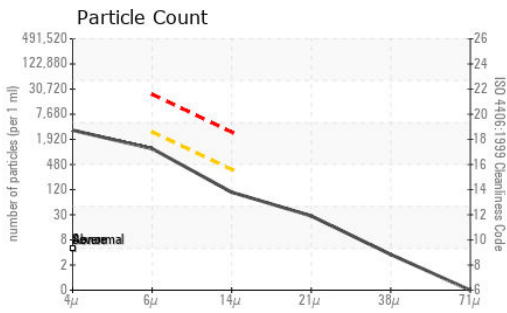
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|--------|--------------|--------|--------------|-------|---------|
| Silicon | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | | 2772 | 1849 | --- |
| Particles >6µm | | ASTM D7647 | >2500 | 1006 | 306 | --- |
| Particles >14µm | | ASTM D7647 | >320 | 92 | 22 | --- |
| Particles >21µm | | ASTM D7647 | >80 | 25 | 5 | --- |
| Particles >38µm | | ASTM D7647 | >20 | 3 | 0 | --- |
| Particles >71µm | | ASTM D7647 | >4 | 0 | 0 | --- |
| Oil Cleanliness | | ISO 4406 (c) | >18/15 | 17/14 | 15/12 | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | ▲ MODER |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.1 | NEG | 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 | | 2 | <1 | <1 |
| Boron | ppm | ASTM D5185m | 5 | 0 | 0 | 2 |
| Barium | ppm | ASTM D5185m | 5 | 0 | 0 | 1 |
| Molybdenum | ppm | ASTM D5185m | 5 | 0 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 25 | 31 | 15 | <1 |
| Calcium | ppm | ASTM D5185m | 200 | 50 | 3 | 5 |
| Phosphorus | ppm | ASTM D5185m | 300 | 293 | 272 | 262 |
| Zinc | ppm | ASTM D5185m | 370 | 288 | 225 | 260 |
| Sulfur | ppm | ASTM D5185m | 2500 | 831 | 912 | 806 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | 0.57 | 0.39 | 0.35 | 0.356 |
| Visc @ 40°C | cSt | ASTM D445 | 46 | 45.5 | 45.5 | 43.3 |



Certificate L2367

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

Sample No. : PTK0005317

Lab Number : 06234834

Unique Number : 11123668

Test Package : MOB 2

Received : 12 Jul 2024

Tested : 15 Jul 2024

Diagnosed : 15 Jul 2024 - Wes Davis

WEST ROCK CP LLC

577 GODDARD

CHESTERFIELD, MO

US 63005

Contact:

kohmes@rocktenn.com

T:

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)