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|-----------------|------------------|
| WEAR | ATTENTION |
| CONTAMINATION | ABNORMAL |
| FLUID CONDITION | ATTENTION |

Machine Id
ATLAS COPCO USS009733
 Component
Final Drive
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

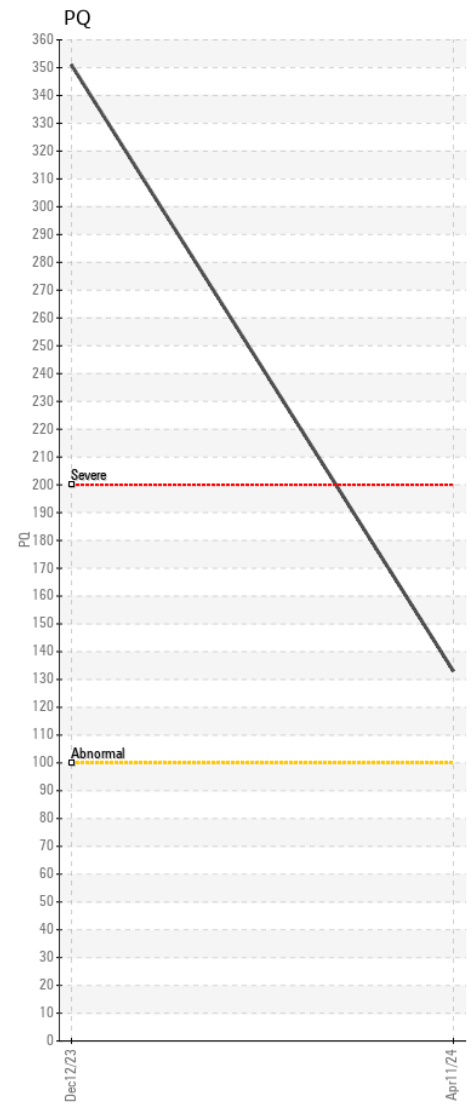
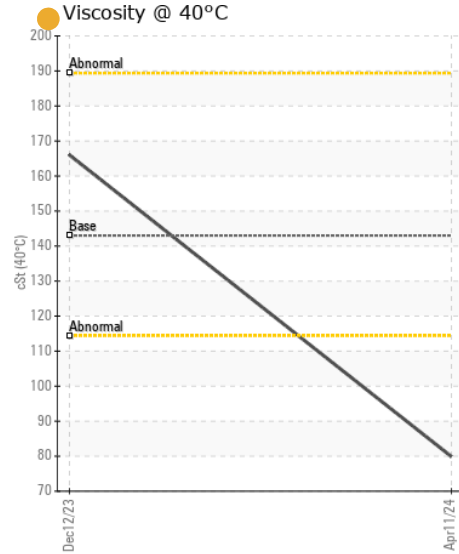
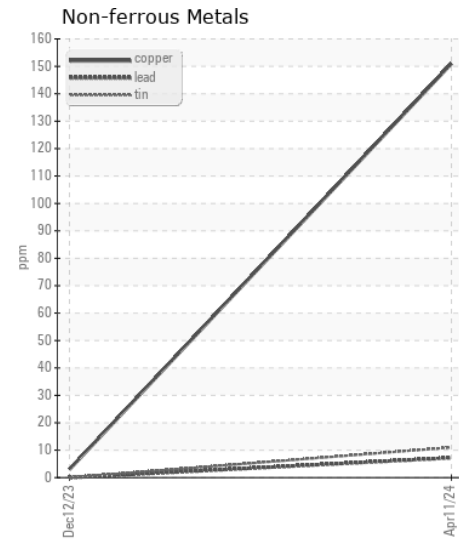
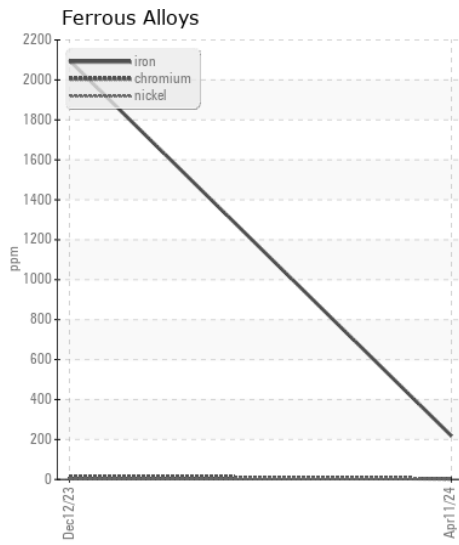
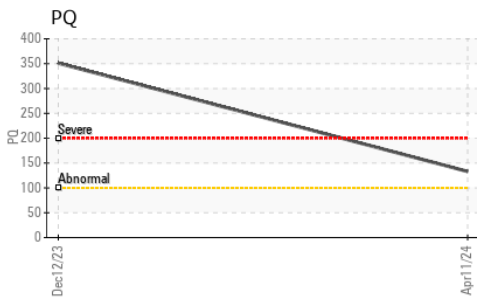
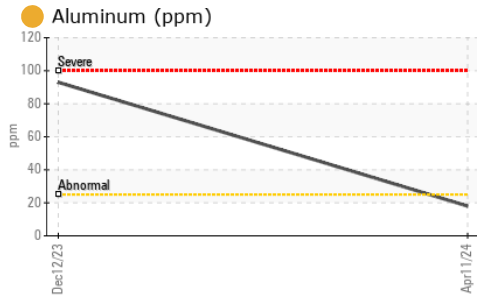
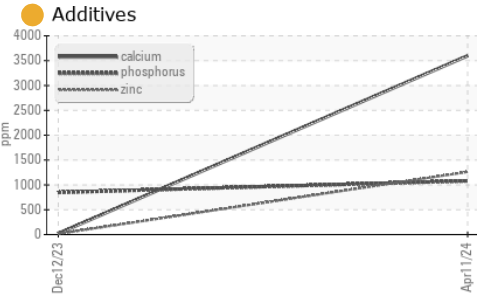
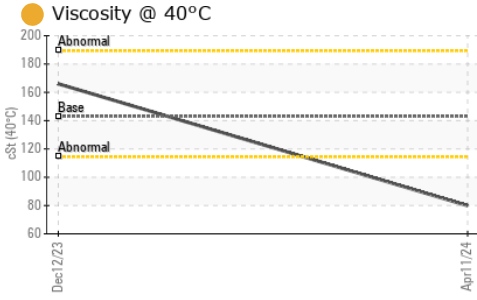
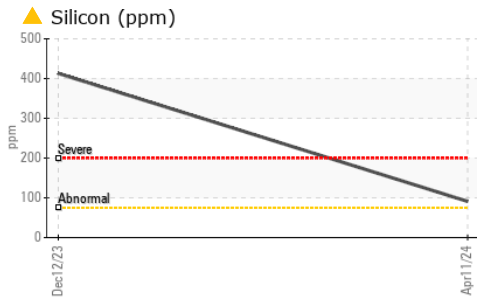
The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | JR0212980 | JR0197955 | --- |
| Sample Date | | Client Info | | 11 Apr 2024 | 12 Dec 2023 | --- |
| Machine Age | hrs | Client Info | | 8927 | 8926 | --- |
| Oil Age | hrs | Client Info | | 8927 | 8926 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Changed | Not Changd | --- |
| Filter Changed | | Client Info | | N/A | N/A | --- |
| Sample Status | | | | ABNORMAL | SEVERE | --- |

| | | | | | | |
|--------------|--------|-------------|------|--------------|--------|-----|
| PQ | | ASTM D8184 | | 133 | 351 | --- |
| Iron | ppm | ASTM D5185m | >500 | 218 | ▲ 2098 | --- |
| Chromium | ppm | ASTM D5185m | >10 | 3 | ▲ 16 | --- |
| Nickel | ppm | ASTM D5185m | >10 | 2 | 2 | --- |
| Titanium | ppm | ASTM D5185m | | 1 | 5 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | ● 18 | ● 93 | --- |
| Lead | ppm | ASTM D5185m | >25 | 7 | 0 | --- |
| Copper | ppm | ASTM D5185m | >50 | 151 | 3 | --- |
| Tin | ppm | ASTM D5185m | >10 | 11 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | --- |
| White Metal | scalar | *Visual | NONE | NONE | LIGHT | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >75 | ▲ 91 | ▲ 413 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 8 | 31 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | LIGHT | 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 | --- |

| | | | | | | |
|-------------|-----|-------------|-------|---------------|-------|-----|
| Sodium | ppm | ASTM D5185m | >170 | 7 | 6 | --- |
| Boron | ppm | ASTM D5185m | 400 | 5 | 5 | --- |
| Barium | ppm | ASTM D5185m | 200 | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 12 | 3 | 0 | --- |
| Manganese | ppm | ASTM D5185m | | 2 | 15 | --- |
| Magnesium | ppm | ASTM D5185m | 12 | ● 83 | 5 | --- |
| Calcium | ppm | ASTM D5185m | 150 | ● 3599 | 22 | --- |
| Phosphorus | ppm | ASTM D5185m | 1650 | 1080 | 847 | --- |
| Zinc | ppm | ASTM D5185m | 125 | ● 1262 | 15 | --- |
| Sulfur | ppm | ASTM D5185m | 22500 | ● 5639 | 22369 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 143 | ● 79.9 | 166 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212980 **Received** : 12 Apr 2024
Lab Number : 06147580 **Tested** : 15 Apr 2024
Unique Number : 10977658 **Diagnosed** : 16 Apr 2024 - Don Baldrige
Test Package : CONST (Additional Tests: PQ)

JRE - GARNER
 4161 AUBURN CHURCH RD
 GARNER, NC
 US 27529

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: RALEIGH SHOP
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (919)614-2260

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (919)779-5432