



OIL ANALYSIS REPORT

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



Area
[MH-5]
Machine Id
LIEBHERR R954C MH5 (S/N 034273-1381)
Component
Swing Drive
Fluid
DURALENE Posi-Traction 80W90 (9 LTR)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | DC0033013 | DC0012216 | DC0005247 |
| Sample Date | | Client Info | | 13 Feb 2024 | 15 Apr 2022 | 23 Nov 2020 |
| Machine Age | hrs | Client Info | | 11300 | 10221 | 9017 |
| Oil Age | hrs | Client Info | | 1079 | 1200 | 1000 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|---------|------|
| Iron | ppm | ASTM D5185m | >750 | 193 | 380 | 264 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 2 | 2 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | <1 | <1 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | <1 | 2 | <1 |
| Lead | ppm | ASTM D5185m | >5 | 2 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >250 | 129 | 87 | 62 |
| Tin | ppm | ASTM D5185m | >10 | 2 | 3 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | ▲ MODER | NONE |

CONTAMINATION

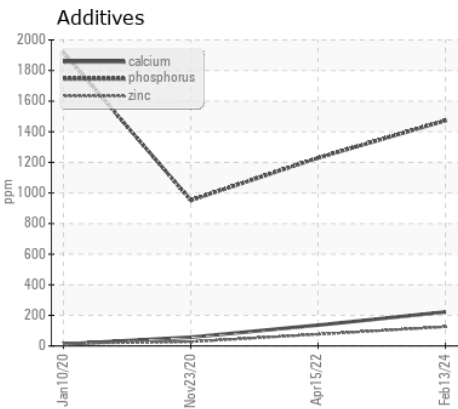
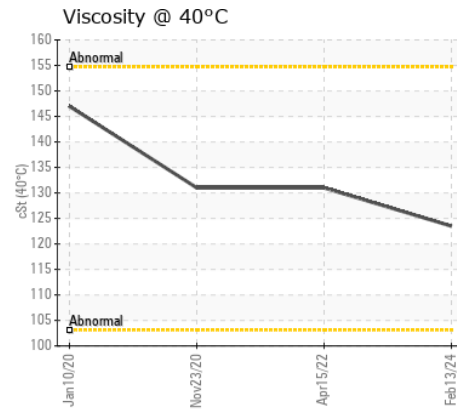
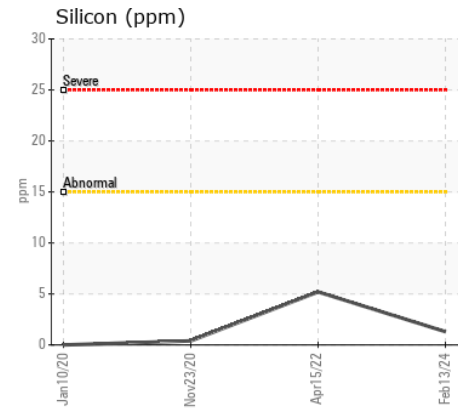
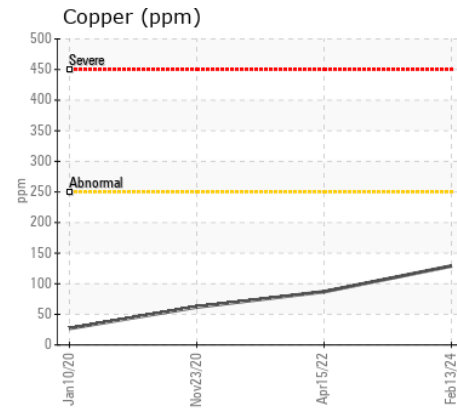
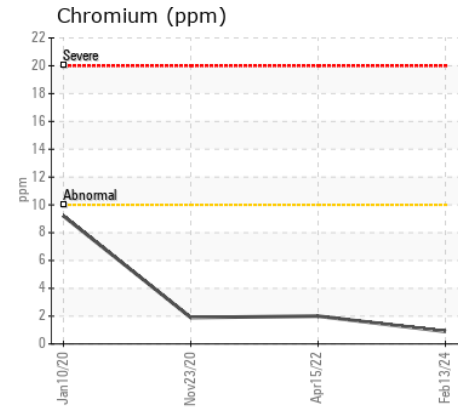
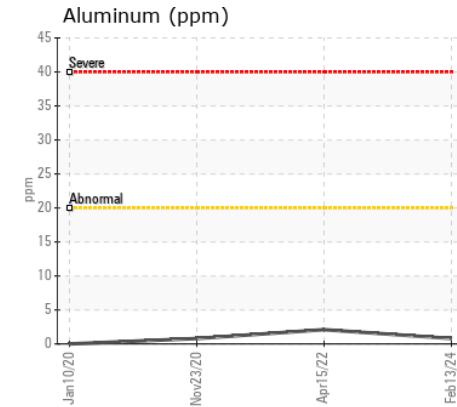
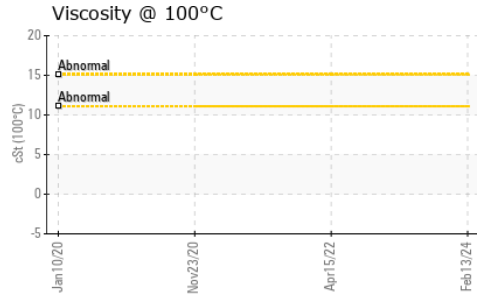
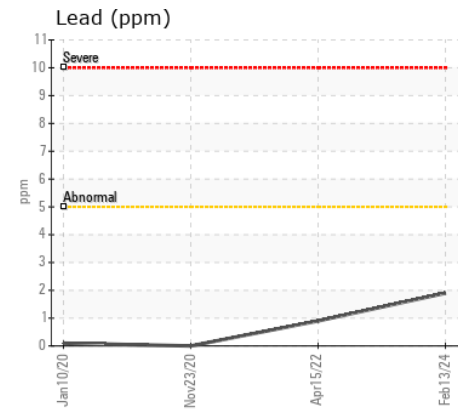
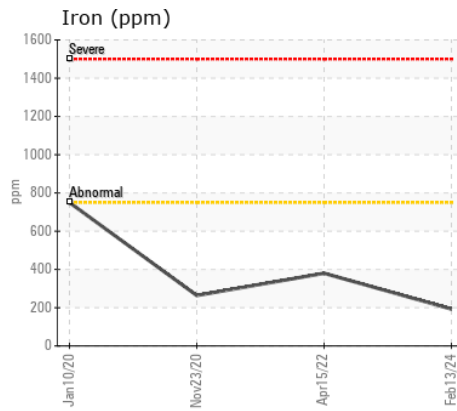
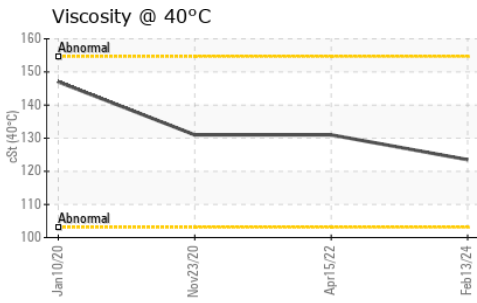
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >15 | 1 | 5 | <1 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 0 | 0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| 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 | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|--|--------------|-------|-------|
| Sodium | ppm | ASTM D5185m | | 2 | <1 | <1 |
| Boron | ppm | ASTM D5185m | | 130 | 116 | 26 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 2 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | 1 | 2 | 2 |
| Magnesium | ppm | ASTM D5185m | | 28 | 10 | 5 |
| Calcium | ppm | ASTM D5185m | | 222 | 136 | 57 |
| Phosphorus | ppm | ASTM D5185m | | 1473 | 1229 | 952 |
| Zinc | ppm | ASTM D5185m | | 125 | 76 | 27 |
| Sulfur | ppm | ASTM D5185m | | 22972 | 21828 | 24604 |
| Visc @ 40°C | cSt | ASTM D445 | | 123.5 | 131 | 131 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0033013 **Received** : 26 Feb 2024
Lab Number : 06100671 **Tested** : 28 Feb 2024
Unique Number : 10898901 **Diagnosed** : 28 Feb 2024 - Sean Felton
Test Package : MOB 1 (Additional Tests: FT-IR, KV100)

CONSERVIT INC.
 PO BOX 1517
 HAGERSTOWN, MD
 US 21740
 Contact: DON LONG

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)

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