



OIL ANALYSIS REPORT

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



Area
RMR-Newport
 Machine Id
1203-88007 LIEBHERR LH50M 1203-88007
 Component
Splitter Box
 Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | DJJ0018092 | DJJ0016423 | DJJ0016415 |
| Sample Date | | Client Info | | 14 Jun 2024 | 05 Dec 2022 | 19 Jul 2022 |
| Machine Age | hrs | Client Info | | 12052 | 10444 | 9816 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | Changed | Changed |
| Filter Changed | | Client Info | | N/A | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 9 | 9 | 20 |
| Chromium | ppm | ASTM D5185m | >5 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >5 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 2 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >30 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >20 | <1 | <1 | 1 |
| Tin | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

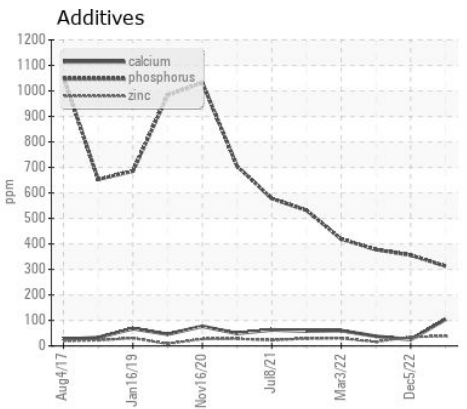
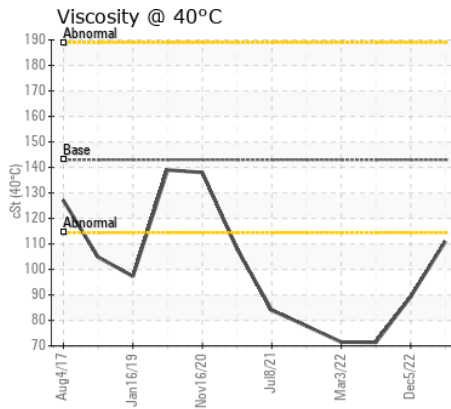
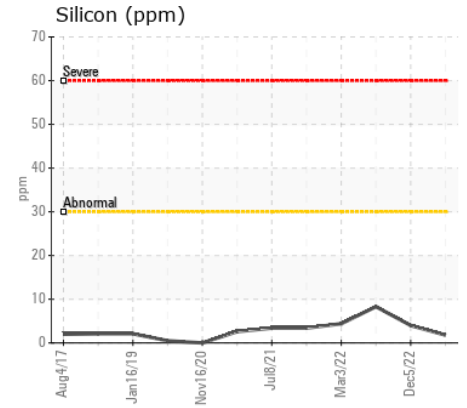
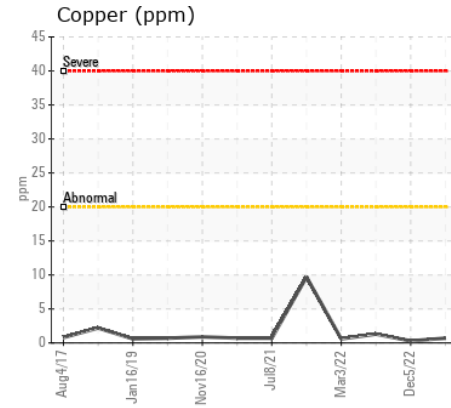
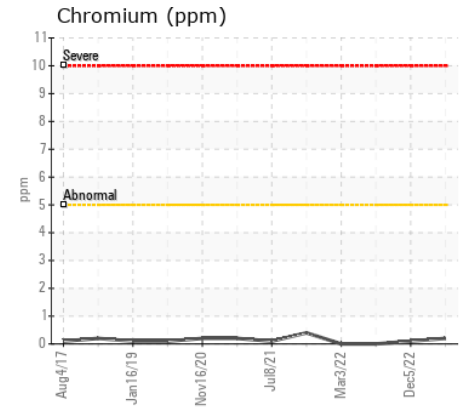
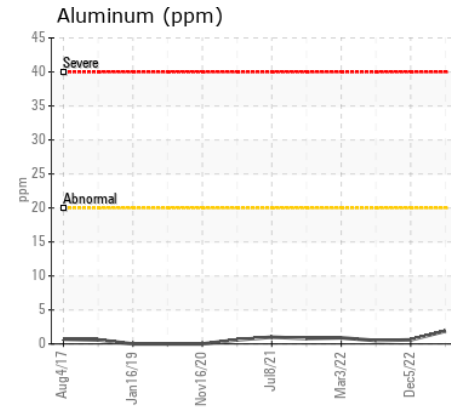
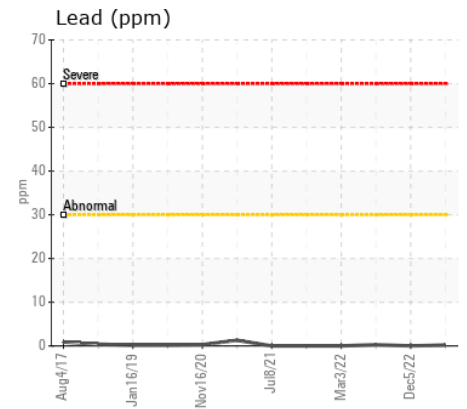
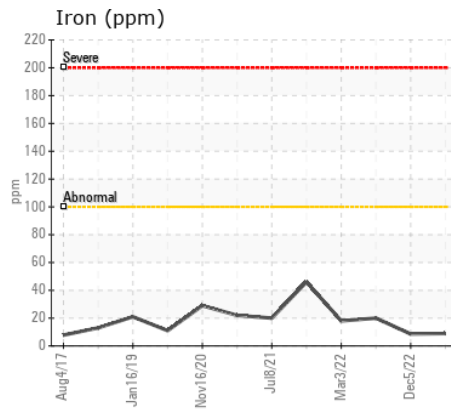
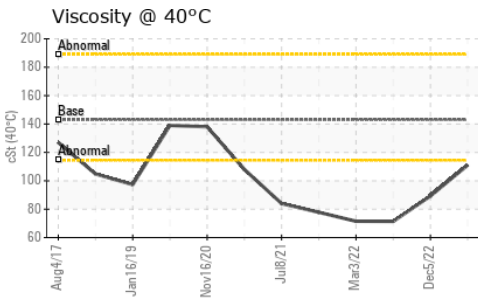
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >30 | 2 | 4 | 8 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 0 | 2 |
| Water | | WC Method | >0.1 | 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 | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|-------|--------------|-------|-------|
| Sodium | ppm | ASTM D5185m | >170 | 0 | <1 | 0 |
| Boron | ppm | ASTM D5185m | 400 | 1 | 2 | 5 |
| Barium | ppm | ASTM D5185m | 200 | <1 | 10 | 0 |
| Molybdenum | ppm | ASTM D5185m | 12 | 2 | 1 | 2 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 12 | 4 | 6 | 9 |
| Calcium | ppm | ASTM D5185m | 150 | 104 | 25 | 38 |
| Phosphorus | ppm | ASTM D5185m | 1650 | 313 | 356 | 378 |
| Zinc | ppm | ASTM D5185m | 125 | 38 | 35 | 16 |
| Sulfur | ppm | ASTM D5185m | 22500 | 14679 | 18966 | 21385 |
| Visc @ 40°C | cSt | ASTM D445 | 143 | 111 | 89.3 | 71.4 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DJJ0018092
Lab Number : 06215165
Unique Number : 11088029
Test Package : MOBCE

RIVER METALS RECYCLING - NEWPORT
P.O. BOX 72-220
NEWPORT, KY
US 41072
Contact: RYAN BOWDEN

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)

T:
F: (859)291-0086