

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R938 050886-1650 - Splitter Box

Sample No: LH0258965

Oil Type: LIEBHERR GEAR BASIC 90 LS



M&F CONCRETE PRODUCTS CO
 4002 CATLETT RD
 CATLETT, VA
 US 20119
 Contact: Service Manager



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | LH0258965 | LH0254075 | --- | --- |
| Sample Date | 09 Aug 2023 | 02 Apr 2023 | --- | --- |
| Machine Hours | 1993 | 1018 | --- | --- |
| Oil Hours | 1993 | 0 | --- | --- |
| Oil Changed | Changed | Not Changd | --- | --- |
| Sample Status | NORMAL | SEVERE | --- | --- |



OIL CONDITION

| | | | | | |
|-------------|-----|-------|-------|-----|-----|
| Visc @ 40°C | cSt | ● 186 | ● 202 | --- | --- |
|-------------|-----|-------|-------|-----|-----|

T:
F:



CONTAMINATION

| | | | | | |
|-----------|-----|------|--------|-----|-----|
| Water | % | --- | ● 1.65 | --- | --- |
| Silicon | ppm | ● <1 | ● 7 | --- | --- |
| Sodium | ppm | ● 4 | ● 2 | --- | --- |
| Potassium | ppm | ● 2 | ● 2 | --- | --- |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|------|--------|-----|-----|
| Iron | ppm | ● 26 | ● 1062 | --- | --- |
| Copper | ppm | ● 2 | ● <1 | --- | --- |
| Lead | ppm | ● 0 | ● 0 | --- | --- |
| Tin | ppm | ● 0 | ● 0 | --- | --- |
| Aluminum | ppm | ● 0 | ● 0 | --- | --- |
| Chromium | ppm | ● 0 | ● 15 | --- | --- |
| Molybdenum | ppm | ● 0 | ● <1 | --- | --- |
| Nickel | ppm | ● 0 | ● 0 | --- | --- |
| Titanium | ppm | 0 | <1 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | ● 2 | ● 10 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



ADDITIVES

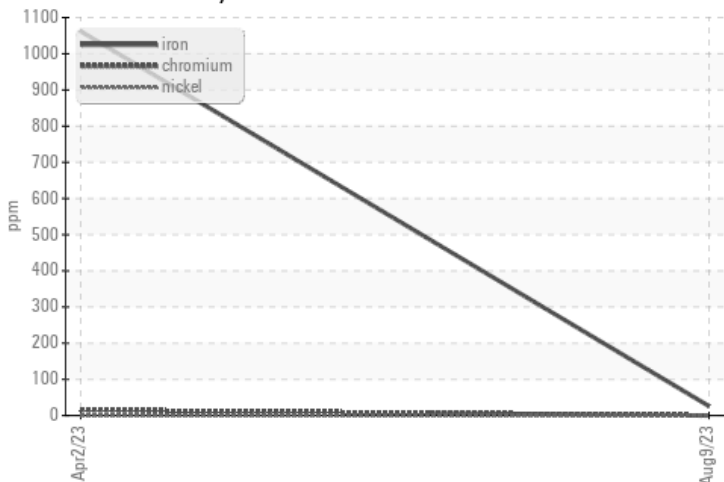
| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | 61 | ● 22 | --- | --- |
| Magnesium | ppm | ● 4 | ● 4 | --- | --- |
| Zinc | ppm | ● 67 | ● 28 | --- | --- |
| Phosphorus | ppm | ● 1451 | ● 1371 | --- | --- |
| Barium | ppm | ● 3 | ● 4 | --- | --- |
| Boron | ppm | ● 0 | ● 3 | --- | --- |

Depot: MECCAT
 Unique No: 10608974
 Signed: Sean Felton
 Report Date: 21 Aug 2023

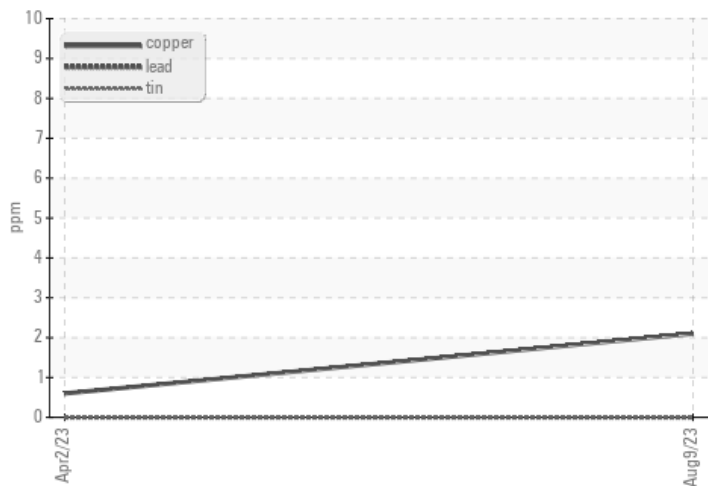


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

