

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M Liebherr LH40M (S/N 1215-98205) - Main Engine Oil Analysis

Sample No: LH0267600

Oil Type: {unknown}



LIEBHERR EQUIPMENT SOURCE
 8200 FAYETTEVILLE ROAD
 RALEIGH, NC
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Sample Information

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | LH0267600 | --- | --- | --- |
| Sample Date | 19 Jun 2024 | --- | --- | --- |
| Machine Hours | 12027 | --- | --- | --- |
| Oil Hours | 743 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |



Oil Condition

| | | | | | |
|------------------|----------|------|-----|-----|-----|
| Visc @ 100°C | cSt | 10.8 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | 5.4 | --- | --- | --- |
| Oxidation (PA) | % | 71 | --- | --- | --- |



Contamination

| | | | | | |
|----------------|-----|-----|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | 0.1 | --- | --- | --- |
| Nitration (PA) | % | 83 | --- | --- | --- |
| Sulfation (PA) | % | 60 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | 1.2 | --- | --- | --- |
| Silicon | ppm | 8 | --- | --- | --- |
| Sodium | ppm | 2 | --- | --- | --- |
| Potassium | ppm | 2 | --- | --- | --- |



Wear Metals

| | | | | | |
|------------|-----|----|-----|-----|-----|
| Iron | ppm | 5 | --- | --- | --- |
| Copper | ppm | 4 | --- | --- | --- |
| Lead | ppm | 1 | --- | --- | --- |
| Tin | ppm | 0 | --- | --- | --- |
| Aluminum | ppm | 1 | --- | --- | --- |
| Chromium | ppm | 0 | --- | --- | --- |
| Molybdenum | ppm | 2 | --- | --- | --- |
| Nickel | ppm | 0 | --- | --- | --- |
| Titanium | ppm | <1 | --- | --- | --- |
| Silver | ppm | <1 | --- | --- | --- |
| Manganese | ppm | <1 | --- | --- | --- |
| Vanadium | ppm | <1 | --- | --- | --- |



Additives

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Calcium | ppm | 1376 | --- | --- | --- |
| Magnesium | ppm | 716 | --- | --- | --- |
| Zinc | ppm | 857 | --- | --- | --- |
| Phosphorus | ppm | 754 | --- | --- | --- |
| Barium | ppm | 0 | --- | --- | --- |
| Boron | ppm | 30 | --- | --- | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

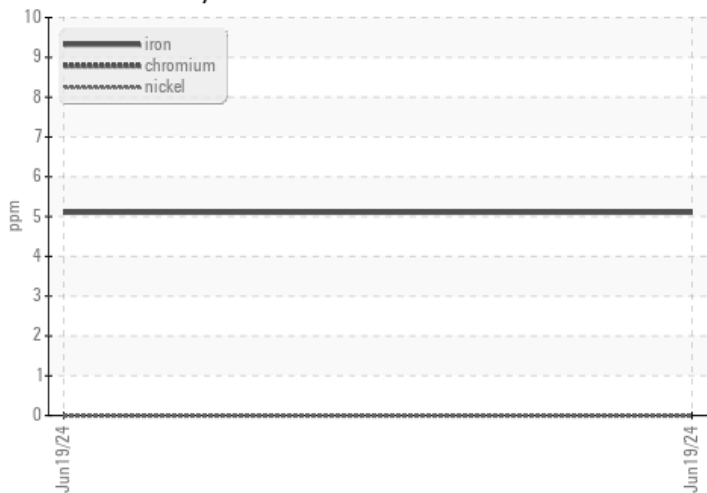
Depot: LIEBHERRNC
Unique No: 11096119
Signed: Jonathan Hester
Report Date: 27 Jun 2024

Submitted By: SHERWOOD LUCAS

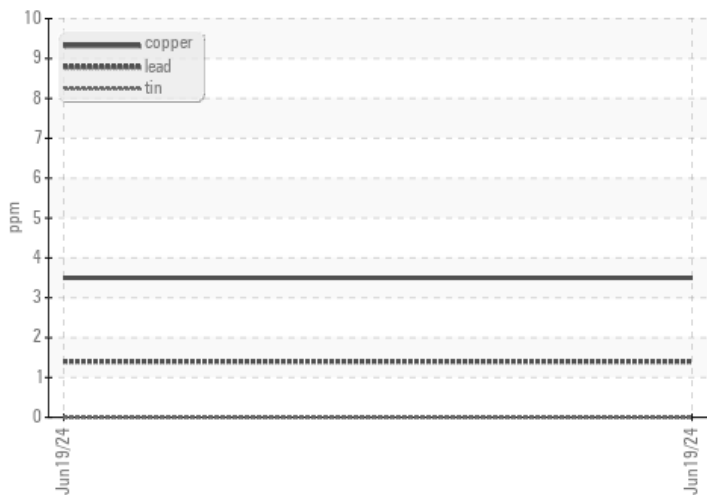


Graphs

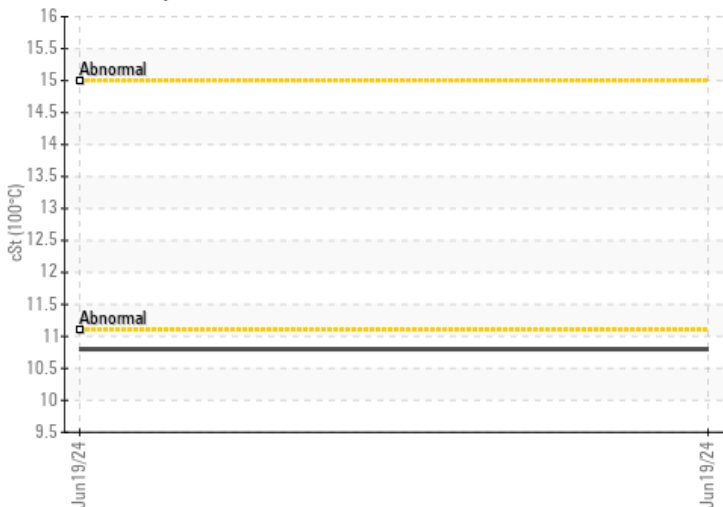
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

