

LIEBHERR

CONSTRUCTION EQUIPMENT



[[SEAGATE TERMINALS]] LIEBHERR LH10CP LH0273458 (S/N 129731-1228) - Hydraulic

Sample No: LH0273457

Oil Type: LIEBHERR HYDRAULIC HVI



LIEBHERR EQUIPMENT SOURCE
 10119 RESIDENCY ROAD
 MANASSAS, VA
 US 20110
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Sample Information

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | LH0273457 | LH0200585 | --- | --- |
| Sample Date | 10 May 2024 | 02 Mar 2022 | --- | --- |
| Machine Hours | 1901 | 415 | --- | --- |
| Oil Hours | 0 | 415 | --- | --- |
| Oil Changed | Not Chngd | Not Chngd | --- | --- |
| Sample Status | ABNORMAL | NORMAL | --- | --- |



Oil Condition

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 40°C | cSt | ● 42.8 | ● 45.3 | --- | --- |
| Acid Number (AN) | mg KOH/g | ● 1.08 | ● 1.17 | --- | --- |



Contamination

| | | | | | |
|-------------------|-----|----------|----------|-----|-----|
| Water | % | ● 0.272 | NEG | --- | --- |
| Particles >4µm | | ● 797 | ● 8615 | --- | --- |
| Particles >6µm | | ● 434 | ● 1802 | --- | --- |
| Particles >14µm | | ● 74 | ● 127 | --- | --- |
| ISO 4406:1999 (c) | | 17/16/13 | 20/18/14 | --- | --- |
| Silicon | ppm | ● 7 | ● 5 | --- | --- |
| Sodium | ppm | ● 2 | ● 0 | --- | --- |
| Potassium | ppm | ● <1 | ● 0 | --- | --- |



Wear Metals

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | ● 7 | ● 5 | --- | --- |
| Copper | ppm | ● 2 | ● 1 | --- | --- |
| Lead | ppm | ● <1 | ● 0 | --- | --- |
| Tin | ppm | ● 0 | ● 0 | --- | --- |
| Aluminum | ppm | ● <1 | ● <1 | --- | --- |
| Chromium | ppm | ● 1 | ● <1 | --- | --- |
| Molybdenum | ppm | ● 0 | ● 0 | --- | --- |
| Nickel | ppm | ● 0 | ● 0 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | 0 | <1 | --- | --- |
| Manganese | ppm | ● <1 | ● <1 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



Additives

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | ● 1356 | ● 1428 | --- | --- |
| Magnesium | ppm | ● 0 | ● 3 | --- | --- |
| Zinc | ppm | ● 648 | ● 637 | --- | --- |
| Phosphorus | ppm | ● 548 | ● 626 | --- | --- |
| Barium | ppm | ● 0 | ● 0 | --- | --- |
| Boron | ppm | ● 0 | ● 0 | --- | --- |

Diagnosis

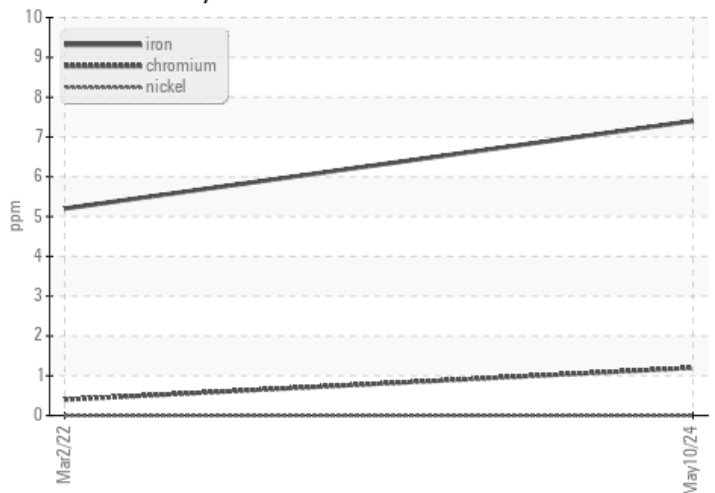
We advise that you check for the source of water entry. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: LIEBHERRVA
 Unique No: 11044320
 Signed: Jonathan Hester
 Report Date: 31 May 2024

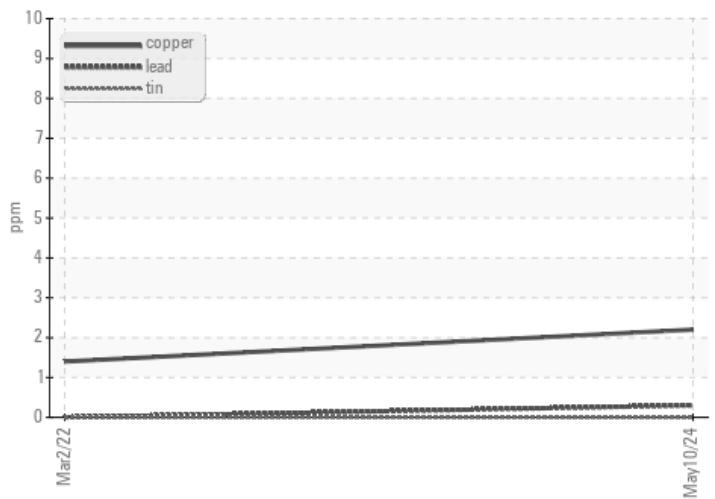


Graphs

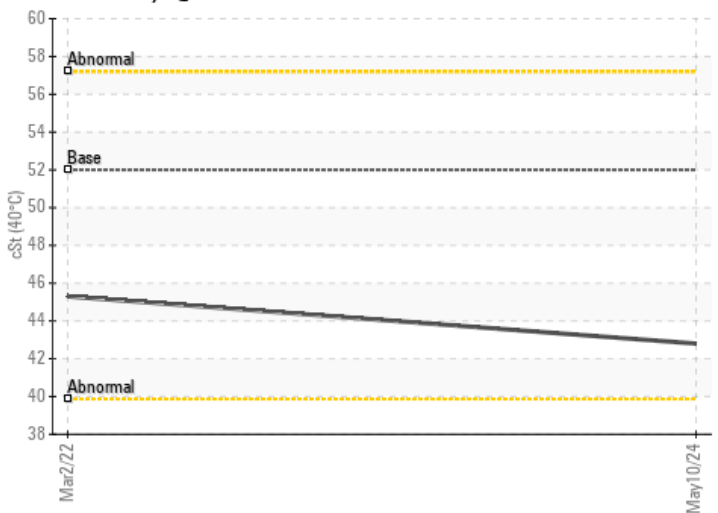
Ferrous Alloys



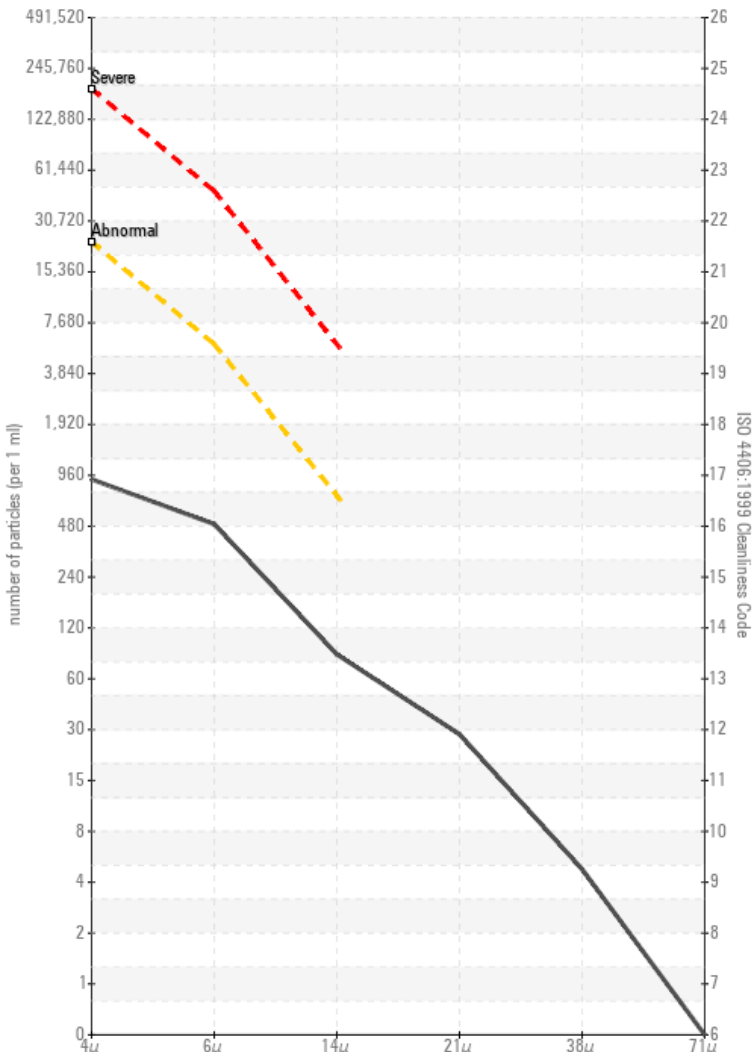
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

