

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60 115240-1529 - Hydraulic System

Sample No: LH0272833

Oil Type: LIEBHERR HYDRAULIC HVI



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-----|
| Sample Number | LH0272833 | LH0254120 | LHMC116228 | --- |
| Sample Date | 20 Dec 2023 | 17 Jun 2023 | 29 Sep 2022 | --- |
| Machine Hours | 4719 | 4033 | 2906 | --- |
| Oil Hours | 0 | 775 | 0 | --- |
| Oil Changed | Not Changd | Not Changd | Not Changd | --- |
| Sample Status | ABNORMAL | ABNORMAL | NORMAL | --- |

DAVIS INDUSTRIAL INC.
 9920 RICHMOND HIGHWAY
 LORTON, VA
 US 22079
 Contact: JAMIE
 jamie.davisindustries@gmail.com
 T:
 F:



OIL CONDITION

| | | | | | |
|------------------|----------|------|------|------|-----|
| Visc @ 40°C | cSt | 42.6 | 42.9 | 42.2 | --- |
| Acid Number (AN) | mg KOH/g | 1.18 | 1.14 | 1.06 | --- |



CONTAMINATION

| | | | | | |
|-------------------|-----|----------|----------|----------|-----|
| Water | % | NEG | NEG | NEG | --- |
| Particles >4µm | | 4150 | 7551 | 4013 | --- |
| Particles >6µm | | 909 | 1208 | 567 | --- |
| Particles >14µm | | 56 | 20 | 27 | --- |
| ISO 4406:1999 (c) | | 19/17/13 | 20/17/11 | 19/16/12 | --- |
| Silicon | ppm | 8 | 7 | 7 | --- |
| Sodium | ppm | <1 | 2 | 1 | --- |
| Potassium | ppm | 0 | 4 | 0 | --- |

Diagnosis
 No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|-----|
| Iron | ppm | 77 | 70 | 50 | --- |
| Copper | ppm | 9 | 9 | 7 | --- |
| Lead | ppm | 1 | 2 | 1 | --- |
| Tin | ppm | <1 | 0 | 0 | --- |
| Aluminum | ppm | <1 | 1 | <1 | --- |
| Chromium | ppm | <1 | <1 | <1 | --- |
| Molybdenum | ppm | 0 | 0 | 0 | --- |
| Nickel | ppm | 0 | 0 | 0 | --- |
| Titanium | ppm | 0 | <1 | 0 | --- |
| Silver | ppm | 0 | 0 | 0 | --- |
| Manganese | ppm | 1 | <1 | <1 | --- |
| Vanadium | ppm | 0 | <1 | 0 | --- |



ADDITIVES

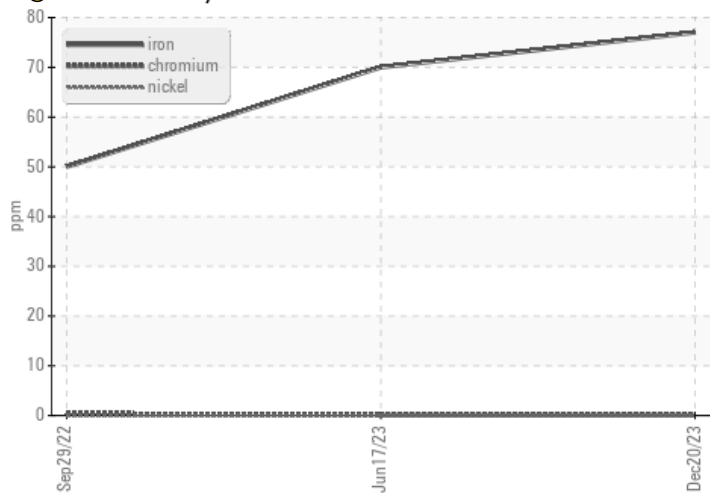
| | | | | | |
|------------|-----|-----|-----|-----|-----|
| Calcium | ppm | 515 | 590 | 804 | --- |
| Magnesium | ppm | 4 | 6 | 4 | --- |
| Zinc | ppm | 604 | 646 | 614 | --- |
| Phosphorus | ppm | 481 | 534 | 514 | --- |
| Barium | ppm | <1 | 0 | 0 | --- |
| Boron | ppm | 0 | 0 | 0 | --- |

Depot: DAVLORVA
Unique No: 10859721
Signed: Don Baldrige
Report Date: 04 Feb 2024

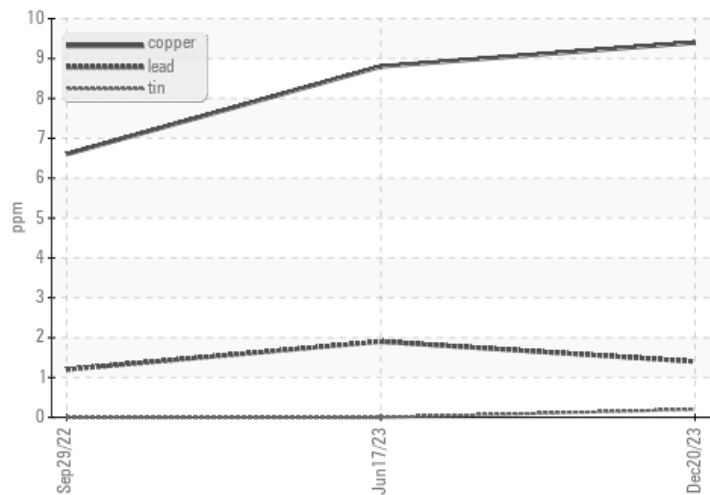


GRAPHS

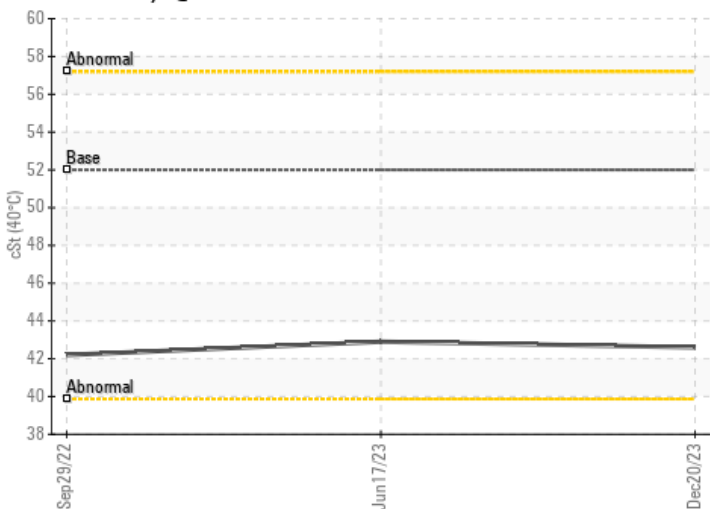
● Ferrous Alloys



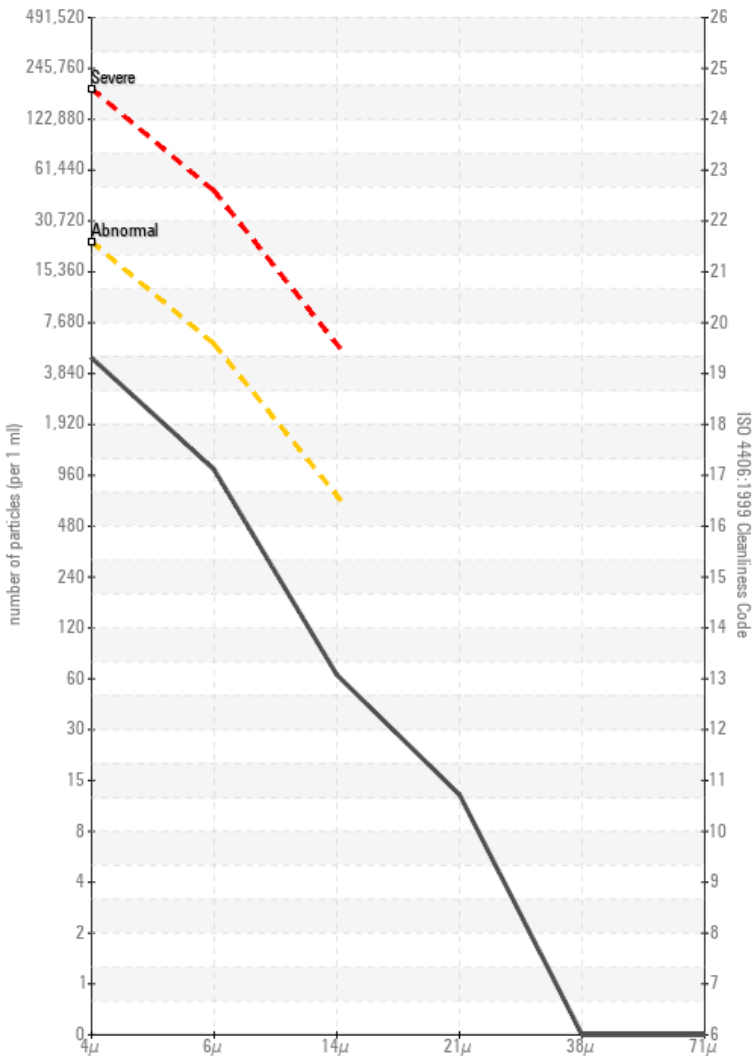
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

