

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 71616 - Hydraulic System

Sample No: LH0274532

Oil Type: NOT GIVEN



SAMPLE INFORMATION

| Sample Number | LH0274532 | LH0256530 | LH0256666 | LH0251560 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 20 Aug 2023 | 19 Jun 2023 | 17 Apr 2023 | 09 Mar 2023 |
| Machine Hours | 2389 | 1650 | 1042 | 531 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Changd | Not Changd | Not Changd | Not Changd |
| Sample Status | NORMAL | ABNORMAL | ATTENTION | ATTENTION |

DOFASCO INC.

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 HAMILTON, ON
 CA L8N 3J5
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OIL CONDITION

| Visc @ 40°C | cSt | 44.5 | 43.1 | 45.4 | 46.1 |
|-------------|-----|------|------|------|------|
| | | ● | ● | ● | ● |



CONTAMINATION

| | | | | | |
|-------------------|-----|----------|----------|----------|----------|
| Particles >4µm | | ● 9945 | ● 87732 | ● 21321 | ● 20995 |
| Particles >6µm | | ● 1912 | ● 33106 | ● 726 | ● 474 |
| Particles >14µm | | ● 181 | ● 2177 | ● 14 | ● 18 |
| ISO 4406:1999 (c) | | 20/18/15 | 24/22/18 | 22/17/11 | 22/16/11 |
| Silicon | ppm | ● 3 | ● 3 | ● 3 | ● 2 |
| Sodium | ppm | ● 1 | ● 2 | ● 2 | ● 1 |
| Potassium | ppm | ● 1 | ● 1 | ● 1 | ● <1 |

Diagnosis

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. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|------|------|------|------|
| Iron | ppm | ● 38 | ● 34 | ● 29 | ● 20 |
| Copper | ppm | ● 2 | ● 2 | ● 2 | ● 1 |
| Lead | ppm | ● 5 | ● 3 | ● 2 | ● 1 |
| Tin | ppm | ● 0 | ● 0 | ● <1 | ● <1 |
| Aluminum | ppm | ● 1 | ● 1 | ● <1 | ● <1 |
| Chromium | ppm | ● 2 | ● 2 | ● 2 | ● <1 |
| Molybdenum | ppm | 0 | ● 0 | ● 0 | 0 |
| Nickel | ppm | ● <1 | ● 0 | ● 0 | ● <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | ● <1 | ● <1 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

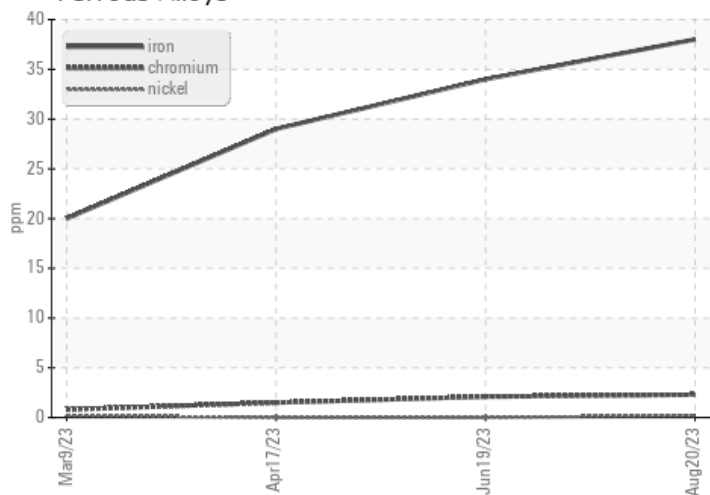
| | | | | | |
|------------|-----|------|-------|-------|------|
| Calcium | ppm | 1236 | 1364 | 1442 | 1461 |
| Magnesium | ppm | 4 | ● 4 | ● 4 | 3 |
| Zinc | ppm | 722 | ● 695 | ● 704 | 701 |
| Phosphorus | ppm | 670 | ● 669 | ● 683 | 695 |
| Barium | ppm | 0 | ● 0 | ● 0 | 0 |
| Boron | ppm | <1 | ● <1 | ● <1 | <1 |

Depot: DOFHAM
 Unique No: 5630278
 Signed: Wes Davis
 Report Date: 22 Aug 2023

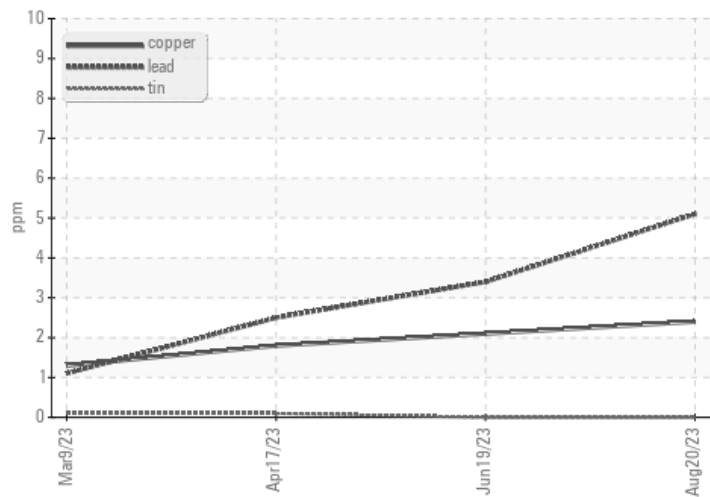


GRAPHS

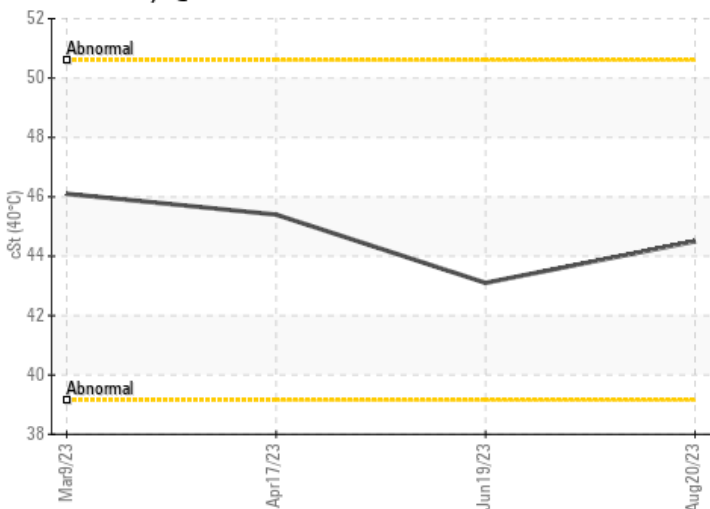
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

