

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 058671-1334 - Hydraulic System

Sample No: LH0266010

Oil Type: NOT GIVEN



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-----|
| Sample Number | LH0266010 | LH0150831 | LH | --- |
| Sample Date | 04 Jun 2023 | 16 Dec 2022 | 08 Jan 2022 | --- |
| Machine Hours | 10000 | 5000 | 3000 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Not Changd | Not Changd | Not Changd | --- |
| Sample Status | NORMAL | ATTENTION | ABNORMAL | --- |

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 1 Terracon Place
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 F:



OIL CONDITION

| | | | | | |
|-------------|-----|------|------|------|-----|
| Visc @ 40°C | cSt | 37.0 | 38.8 | 41.5 | --- |
|-------------|-----|------|------|------|-----|



CONTAMINATION

| | | | | | |
|-------------------|-----|----------|----------|----------|-----|
| Particles >4µm | | 14654 | 21087 | 56262 | --- |
| Particles >6µm | | 3986 | 767 | 4894 | --- |
| Particles >14µm | | 352 | 21 | 367 | --- |
| ISO 4406:1999 (c) | | 21/19/16 | 22/17/12 | 23/19/16 | --- |
| Silicon | ppm | 8 | 9 | 8 | --- |
| Sodium | ppm | 5 | 4 | 2 | --- |
| Potassium | ppm | 2 | 2 | 3 | --- |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|-----|
| Iron | ppm | 24 | 30 | 25 | --- |
| Copper | ppm | 6 | 6 | 6 | --- |
| Lead | ppm | 10 | 11 | 10 | --- |
| Tin | ppm | <1 | <1 | <1 | --- |
| Aluminum | ppm | 3 | 4 | 3 | --- |
| Chromium | ppm | 4 | 4 | 2 | --- |
| Molybdenum | ppm | 0 | 0 | 0 | --- |
| Nickel | ppm | <1 | 0 | <1 | --- |
| Titanium | ppm | <1 | <1 | 0 | --- |
| Silver | ppm | 0 | 0 | <1 | --- |
| Manganese | ppm | <1 | <1 | <1 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

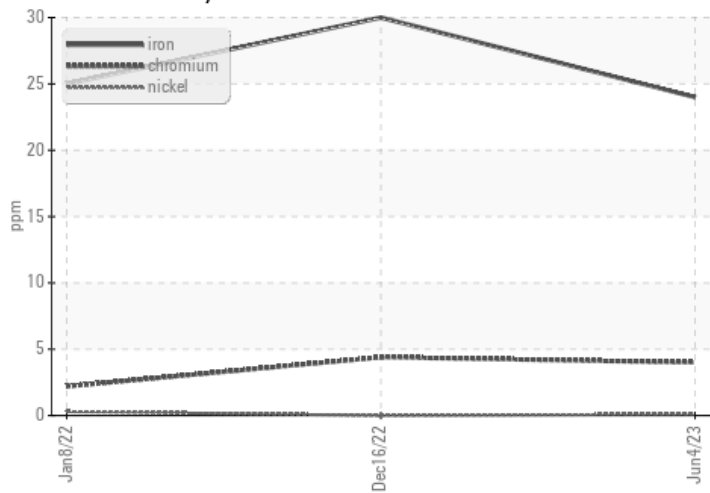
| | | | | | |
|------------|-----|-----|------|------|-----|
| Calcium | ppm | 743 | 1089 | 1251 | --- |
| Magnesium | ppm | 33 | 23 | 11 | --- |
| Zinc | ppm | 566 | 604 | 667 | --- |
| Phosphorus | ppm | 498 | 557 | 587 | --- |
| Barium | ppm | <1 | 0 | <1 | --- |
| Boron | ppm | <1 | <1 | <1 | --- |

Depot: BIRWIN
 Unique No: 5619586
 Signed: Wes Davis
 Report Date: 09 Aug 2023

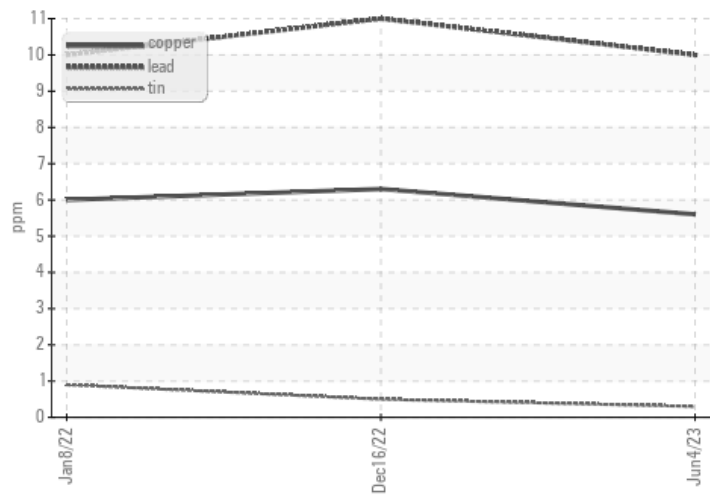


GRAPHS

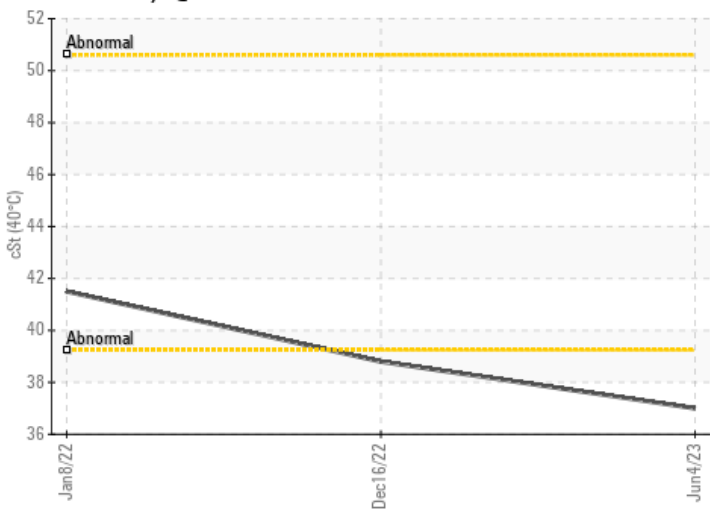
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

