

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L550 034299 - Hydraulic System

Sample No: LH0276166

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0276166 | LH0261804 | LH0247053 | LH0247517 |
| Sample Date | 14 Sep 2023 | 23 May 2023 | 21 Feb 2023 | 15 Nov 2022 |
| Machine Hours | 12627 | 12070 | 11558 | 10999 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Changd | Not Changd | Not Changd | Not Changd |
| Sample Status | ATTENTION | ABNORMAL | ATTENTION | SEVERE |

MONAGHAN MUSHROOMS LTD

7345 GUELPH LINE
CAMPBELLVILLE, ON
CA L0P 1B0

Contact: Steven Cargill

s.cargill@monaghan-mushrooms.com

T:

F:



OIL CONDITION

| | | | | | |
|-------------|-----|------|------|------|------|
| Visc @ 40°C | cSt | 43.4 | 43.6 | 44.5 | 44.0 |
|-------------|-----|------|------|------|------|



CONTAMINATION

| | | | | | |
|-------------------|-----|----------|----------|----------|----------|
| Particles >4µm | | 28298 | 39859 | 23951 | 156189 |
| Particles >6µm | | 7014 | 10702 | 3431 | 104649 |
| Particles >14µm | | 470 | 315 | 68 | 8519 |
| ISO 4406:1999 (c) | | 22/20/16 | 22/21/15 | 22/19/13 | 24/24/20 |
| Silicon | ppm | <1 | <1 | <1 | 1 |
| Sodium | ppm | <1 | <1 | 1 | 3 |
| Potassium | ppm | 3 | 4 | 4 | 11 |



WEAR METALS

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



ADDITIVES

| | | | | | |
|------------|-----|-----|-----|-----|-----|
| Calcium | ppm | 45 | 38 | 33 | 48 |
| Magnesium | ppm | <1 | <1 | <1 | 2 |
| Zinc | ppm | 406 | 426 | 406 | 425 |
| Phosphorus | ppm | 370 | 374 | 361 | 369 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 0 | 0 | 0 | <1 |

Diagnosis

We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: MONCAM

Unique No: 5643924

Signed: Bill Quesnel

Report Date: 18 Sep 2023

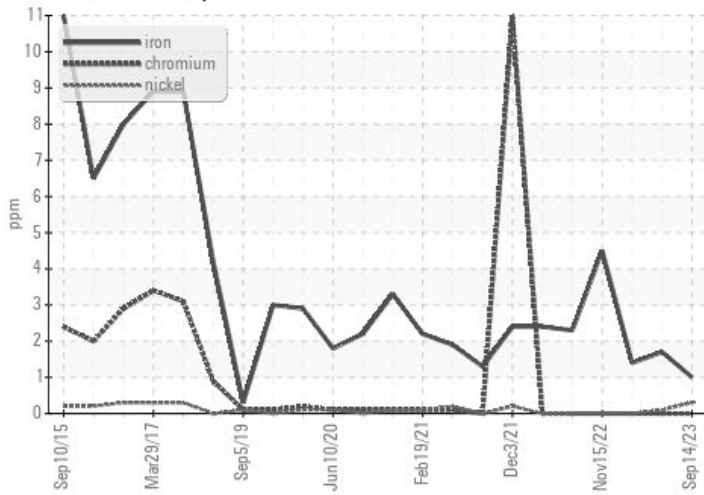
LIEBHERR

CONSTRUCTION EQUIPMENT

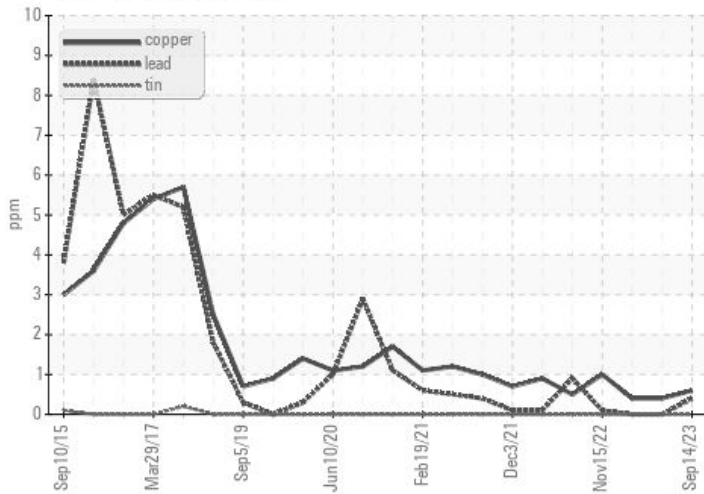


GRAPHS

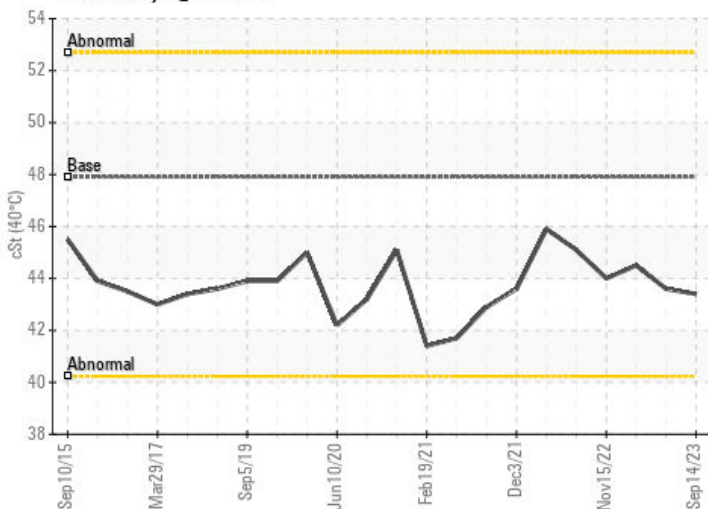
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

