

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR HS895 188244 - Splitter Box

Sample No: LH0296512

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



Sample Information

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | LH0296512 | LH0278946 | LH0281368 | LH0276122 |
| Sample Date | 10 Jul 2024 | 04 Jan 2024 | 21 Dec 2023 | 05 Sep 2023 |
| Machine Hours | 21679 | 20588 | 20420 | 19868 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | N/A | N/A | N/A |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

HIGGS & HIGGS

RR # 4

ST THOMAS, ON

CA N5P 3S8

Contact: Bernie Higgs



Oil Condition

| | | | | | |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | 81.4 | 71.6 | 85.8 | 83.4 |
|-------------|-----|-------------|------|------|------|

T: (519)631-4095

F: (519)631-2745



Contamination

| | | | | | |
|-----------|-----|--------------|-----|-----|-----|
| Water | % | NEG | NEG | NEG | NEG |
| Silicon | ppm | <1 | 1 | <1 | 2 |
| Sodium | ppm | <1 | <1 | <1 | 1 |
| Potassium | ppm | 0 | 3 | <1 | <1 |

Diagnosis

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 no indication of any contamination 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.



Wear Metals

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 6 | 21 | 18 | 17 |
| Copper | ppm | 2 | 2 | 6 | 4 |
| Lead | ppm | 0 | <1 | <1 | <1 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | <1 | <1 | <1 | <1 |
| Chromium | ppm | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | 2 | 2 | 4 | 2 |
| Nickel | ppm | 0 | <1 | <1 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 0 | 0 | 0 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



Additives

| | | | | | |
|------------|-----|-------------|-----|-----|------|
| Calcium | ppm | 100 | 92 | 67 | 83 |
| Magnesium | ppm | 30 | 30 | 53 | 25 |
| Zinc | ppm | 166 | 161 | 109 | 134 |
| Phosphorus | ppm | 1025 | 688 | 726 | 1125 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 219 | 33 | 25 | 226 |

Depot: HIGSTT

Unique No: 5812925

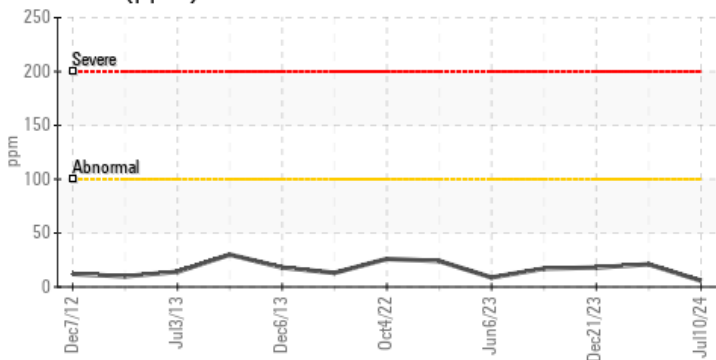
Signed: Wes Davis

Report Date: 11 Jul 2024

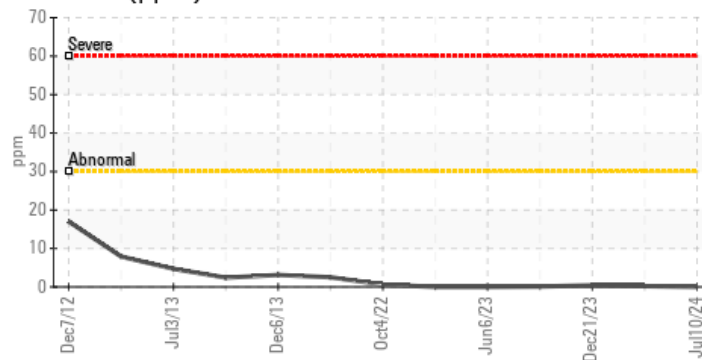


Graphs

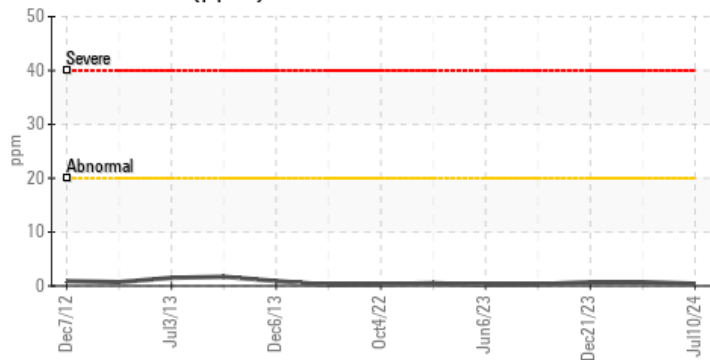
Iron (ppm)



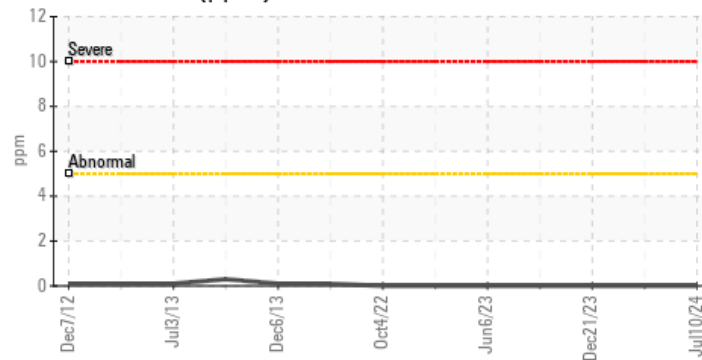
Lead (ppm)



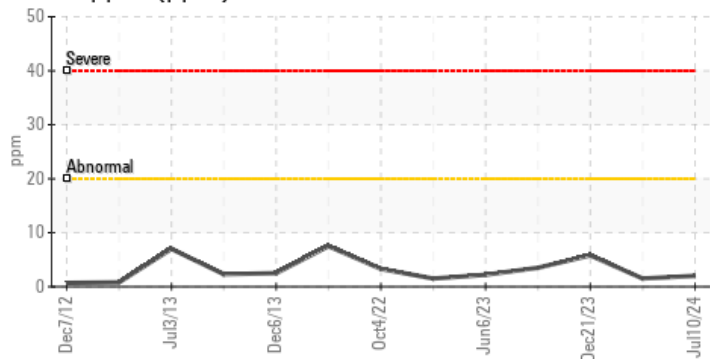
Aluminum (ppm)



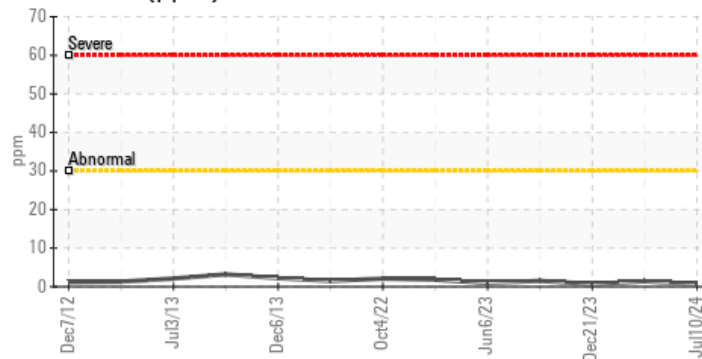
Chromium (ppm)



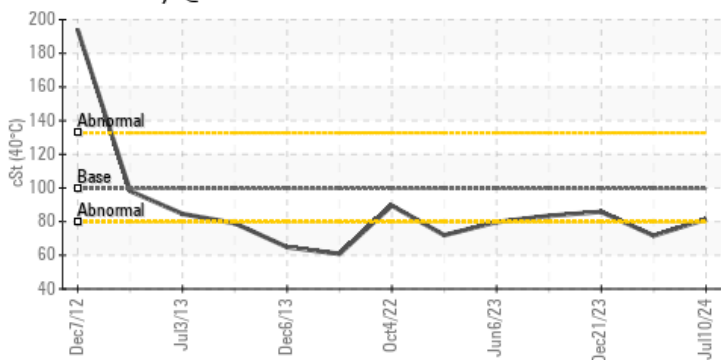
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

