

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L556 053602-1484 - Rear Differential

Sample No: LH0278834

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



Sample Information

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0278834 | LH0123092 | LH0270374 | LH0247089 |
| Sample Date | 11 Jan 2024 | 13 Oct 2023 | 14 Jul 2023 | 30 Nov 2022 |
| Machine Hours | 7741 | 7226 | 6154 | 5112 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

THOMAS CAVANAGH CONSTRUCTION LTD
RR # 2, 9094 CAVANAGH ROAD
ASHTON, ON
CA K0A 1B0
Contact: Keith



Oil Condition

| | | | | | |
|-------------|-----|-----|-----|-----|-----|
| Visc @ 40°C | cSt | 126 | 177 | 171 | 163 |
|-------------|-----|-----|-----|-----|-----|

T: (613)257-4995
F: (613)253-0071



Contamination

| | | | | | |
|-----------|-----|-----|-----|-----|-----|
| Water | % | NEG | NEG | NEG | NEG |
| Silicon | ppm | 3 | 1 | 3 | 6 |
| Sodium | ppm | 2 | 1 | 1 | 2 |
| Potassium | ppm | <1 | 0 | <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 | 122 | 28 | 86 | 251 |
| Copper | ppm | 21 | 7 | 33 | 71 |
| Lead | ppm | <1 | <1 | <1 | 2 |
| Tin | ppm | 1 | 0 | <1 | 4 |
| Aluminum | ppm | 2 | <1 | <1 | 3 |
| Chromium | ppm | <1 | 0 | <1 | 1 |
| Molybdenum | ppm | 26 | 6 | 2 | 2 |
| Nickel | ppm | <1 | <1 | 0 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | <1 | 0 | 0 |
| Manganese | ppm | 2 | 0 | 1 | 4 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



Additives

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 79 | 36 | 109 | 375 |
| Magnesium | ppm | 8 | <1 | 5 | 7 |
| Zinc | ppm | 44 | 18 | 67 | 184 |
| Phosphorus | ppm | 3449 | 2296 | 2330 | 2296 |
| Barium | ppm | <1 | <1 | <1 | <1 |
| Boron | ppm | 2 | 3 | 6 | 5 |

Depot: CAVASH
Unique No: 5710608
Signed: Kevin Marson
Report Date: 18 Jan 2024



Graphs

