

LIEBHERR

CONSTRUCTION EQUIPMENT



059596-194 - Front Differential

Sample No: LH0274776

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

| Sample Number | LH0274776 | LH0202696 | LH0213824 | LH0106357 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 23 Nov 2023 | 15 Nov 2022 | 04 Nov 2021 | 20 Sep 2016 |
| Machine Hours | 19244 | 17530 | 16550 | 8181 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

American Iron and Metal

2555 Sheffield Road
Ottawa, ON
CA K1B 3V6
Contact: Dan Dupelle
ddupelle@aim-rg.com
T: (613)228-9380
F: (613)745-0692



OIL CONDITION

| Visc @ 40°C | cSt | 106 | 104 | 104 | 93.7 |
|-------------|-----|-----|-----|-----|------|
|-------------|-----|-----|-----|-----|------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 16 | 2 | 2 | 2 |
| Sodium | ppm | 1 | <1 | <1 | <1 |
| Potassium | ppm | 0 | <1 | <1 | 0 |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|----|
| Iron | ppm | <1 | 1 | 1 | 1 |
| Copper | ppm | 8 | 31 | 26 | 28 |
| Lead | ppm | <1 | <1 | <1 | <1 |
| Tin | ppm | 0 | 0 | <1 | 0 |
| Aluminum | ppm | 0 | <1 | 0 | <1 |
| Chromium | ppm | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | 0 | 0 | 0 | 0 |
| Nickel | ppm | 0 | 0 | 0 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | <1 | 0 | <1 | 0 |
| Manganese | ppm | 0 | 0 | 0 | 0 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 12 | 7 | 7 | 6 |
| Magnesium | ppm | 2 | 1 | 2 | 0 |
| Zinc | ppm | 14 | 19 | 16 | 16 |
| Phosphorus | ppm | 1234 | 1332 | 1360 | 1276 |
| Barium | ppm | <1 | 0 | 0 | <1 |
| Boron | ppm | 300 | 320 | 330 | 333 |

Depot: BAKOTT
Unique No: 5684826
Signed: Wes Davis
Report Date: 30 Nov 2023



GRAPHS

