

LIEBHERR

CONSTRUCTION EQUIPMENT



042990-1491 - Right Final Drive

Sample No: LH0277804

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | LH0277804 | LH0234921 | LH | LH0140454 |
| Sample Date | 27 Nov 2023 | 19 Jul 2022 | 27 Jul 2021 | 02 Apr 2019 |
| Machine Hours | 6947 | 5990 | 5011 | 2398 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

Delsan - American Iron and Metal
 2187 Montee Masson
 Laval, QC
 CA H7B 0A6
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 T:
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OIL CONDITION

| | | | | | |
|-------------|-----|------|------|------|------|
| Visc @ 40°C | cSt | 86.9 | 90.8 | 93.3 | 88.7 |
|-------------|-----|------|------|------|------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 29 | 150 | 14 | 10 |
| Sodium | ppm | 4 | 7 | 2 | 2 |
| Potassium | ppm | 3 | 12 | 2 | <1 |

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

| | | | | | |
|------------|-----|-----|-----|-----|-----|
| PQ | | --- | 98 | --- | --- |
| Iron | ppm | 168 | 739 | 73 | 69 |
| Copper | ppm | <1 | <1 | <1 | 0 |
| Lead | ppm | <1 | <1 | 0 | <1 |
| Tin | ppm | 0 | 0 | <1 | 0 |
| Aluminum | ppm | 7 | 39 | 3 | 2 |
| Chromium | ppm | 2 | 10 | <1 | <1 |
| Molybdenum | ppm | 0 | <1 | <1 | <1 |
| Nickel | ppm | 2 | 6 | 1 | 2 |
| Titanium | ppm | <1 | 13 | 1 | <1 |
| Silver | ppm | <1 | 0 | <1 | 0 |
| Manganese | ppm | 1 | 9 | <1 | <1 |
| Vanadium | ppm | 0 | <1 | <1 | <1 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 58 | 325 | 35 | 36 |
| Magnesium | ppm | 9 | 47 | 3 | 9 |
| Zinc | ppm | 11 | 26 | 12 | 32 |
| Phosphorus | ppm | 1172 | 1235 | 1274 | 1229 |
| Barium | ppm | <1 | 6 | <1 | <1 |
| Boron | ppm | 265 | 248 | 303 | 299 |

Depot: DEL782MON
 Unique No: 5684613
 Signed: Wes Davis
 Report Date: 29 Nov 2023



GRAPHS

