

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A934C 063551 - Transmission (Manual)

Sample No: LH0284065

Oil Type: PETRO CANADA 15W40



ABC RECYCLING
 750C JACKSON RD
 NANAIMO, BC
 CA V9X 1J2
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 F:



SAMPLE INFORMATION

| Sample Number | LH0284065 | LH0260530 | LH0224855 | LH0226648 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 18 Mar 2024 | 30 Jun 2023 | 18 Nov 2022 | 09 Aug 2022 |
| Machine Hours | 19058 | 17789 | 16666 | 16175 |
| Oil Hours | 1269 | 1123 | 491 | 1200 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | ABNORMAL | ABNORMAL | ABNORMAL | ABNORMAL |



OIL CONDITION

| Visc @ 40°C | cSt | 76.8 | 80.4 | 83.8 | 85.2 |
|-------------|-----|------|------|------|------|
| | | | | | |



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 2 | 4 | 4 | 4 |
| Sodium | ppm | 2 | 2 | 3 | 3 |
| Potassium | ppm | <1 | 0 | 0 | 1 |



WEAR METALS

| | | | | | |
|------------|-----|----|----|----|----|
| Iron | ppm | 26 | 32 | 36 | 45 |
| Copper | ppm | 24 | 35 | 45 | 69 |
| Lead | ppm | 0 | <1 | 1 | 2 |
| Tin | ppm | <1 | 1 | 1 | 2 |
| Aluminum | ppm | 1 | <1 | 1 | <1 |
| Chromium | ppm | 0 | <1 | 0 | 0 |
| Molybdenum | ppm | 53 | 44 | 44 | 38 |
| Nickel | ppm | 0 | 0 | 0 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 6 |
| Manganese | ppm | <1 | 2 | 3 | 4 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------|------|------|------|
| Calcium | ppm | 940 | 806 | 795 | 707 |
| Magnesium | ppm | 865 | 722 | 712 | 602 |
| Zinc | ppm | 1052 | 902 | 896 | 789 |
| Phosphorus | ppm | 1060 | 1143 | 1164 | 1055 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 39 | 56 | 53 | 65 |

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the fluid is acceptable for the time in service.

Depot: ABCNAN
 Unique No: 5749557
 Signed: Kevin Marson
 Report Date: 26 Mar 2024

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GRAPHS

