LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR R944C018096-793 - Right Final Drive

Sample No: LH0270437

Oil Type: PETRO CANADA TRAXON 75W90 SYNTHETIC

| SAN | IPLE INFO | RMATION | | | |
|---------------|------------------|-------------|-------------|-------------|-------------|
| Sample Number | | LH0270437 | LH0195622 | LH0222740 | LH0195668 |
| Sample Date | | 20 Sep 2023 | 12 Jul 2022 | 28 Jan 2022 | 21 Jun 2021 |
| Machine Hours | | 25291 | 23797 | 23267 | 22261 |
| Oil Hours | | 0 | 0 | 0 | 0 |
| Oil Changed | | N/A | Not Changd | Changed | Changed |
| Sample Status | | SEVERE | SEVERE | ABNORMAL | NORMAL |
| | | | | | |
| OIL | ONDITIO | N | | | |
| Visc @ 40°C | cSt | 90.9 | ○ 80.1 | 93.6 | 94.0 |
| طد | | | | | |
| CON | TAMINA | TION | | | |
| Water | % | | | 0.320 | |
| Silicon | ppm | 669 | 619 | O 410 | O 68 |
| Sodium | ppm | O 33 | O 34 | O 21 | O 5 |
| Potassium | ppm | O 67 | 75 | O 63 | 08 |
| | P P I | 0 01 | 0.10 | 0 33 | |
| ◎ WE | R METAL | S | | | |
| Iron | ppm | 1523 | O 1355 | O 939 | O 229 |
| Copper | ppm | <u>149</u> | 0 132 | 38 | O 16 |
| Lead | ppm | 08 | <u> </u> | 0 7 | 0 2 |
| Tin | ppm | 0 4 | O 6 | 0 2 | 0 <1 |
| Aluminum | ppm | <u> </u> | <u> </u> | O 131 | 18 |
| Chromium | ppm | 26 | O 22 | 1 9 | 0 8 |
| Molybdenum | ppm | 3 | O 4 | 3 | 02 |
| Nickel | ppm | 5 | O 4 | 3 | O <1 |
| Titanium | ppm | 0 7 | <u> </u> | 9 | 0 1 |
| Silver | ppm | <1 | 0 | <1 | <1 |
| | | 0.10 | O 13 | O 10 | 02 |
| Manganese | ppm | 16 | 0 13 | 0 10 | _ |

909

147

246

02

133

641

87

O 62

 \bigcirc 0

1431

242

86

O 22

40

 \bigcirc <1

236

1228



GERDAU METALS 5402 OLD RICHMOND RD NEPEAN, ON CA K2R 1G7

Contact: Service Manager

T: F:

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you flush the component thoroughly before re-filling with oil. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition.Copper ppm levels are abnormal. Aluminum ppm levels are noted. Bearing and/or bushing wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: GER540NEP
Unique No: 5645785
Signed: Bill Quesnel
Report Date: 25 Sep 2023

448

72

1259

183

70

2

ADDITIVES

ppm

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus

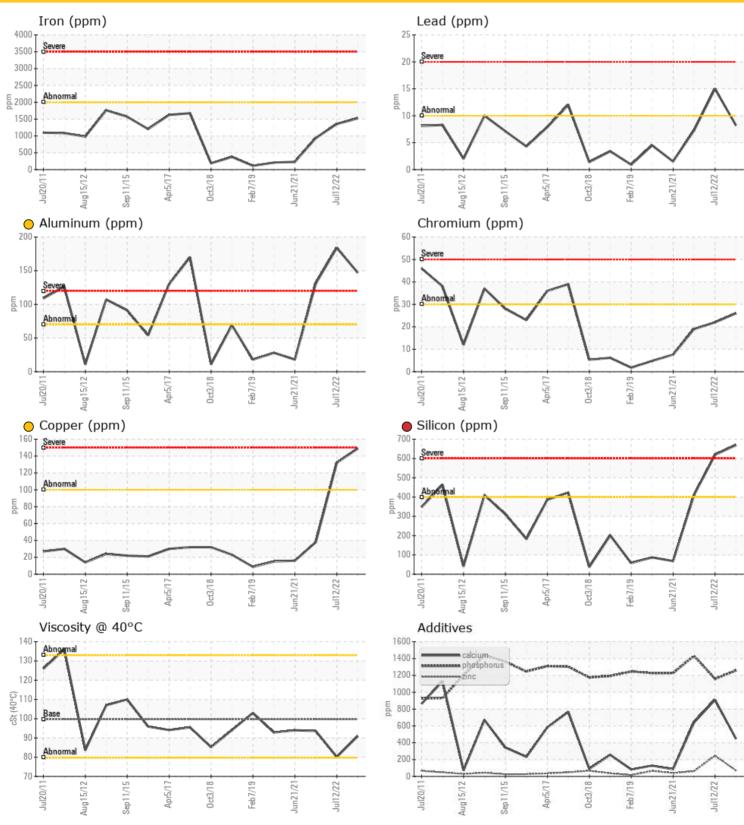
LIEBHERR

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GRAPHS



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Submitted By: Isabelle Langlois