



CONSTRUCTION EQUIPMENT

659047 TUCKER VOLVO A25G 740257 - REAR AXLE



Sample No: VCP452124
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 659047 TUCKER



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP452124 | VCP386666 | VCP317057 | VCP302419 |
| Sample Date | 08 Jan 2024 | 30 Nov 2022 | 25 Jun 2021 | 22 Jan 2021 |
| Machine Hours | 9175 | 8249 | 6077 | 5219 |
| Oil Hours | 1000 | 4000 | 2000 | 1000 |
| Oil Changed | Not Chngd | Changed | Changed | N/A |
| Sample Status | ABNORMAL | ABNORMAL | SEVERE | ABNORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 285 | 213 | 312 | 312 |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|----------------|-------|-------|-------|
| Silicon | ppm | ▲ 52 | ▲ 132 | ● 304 | ▲ 150 |
| Sodium | ppm | ■ <1 | ■ 2 | ■ 1 | ■ 2 |
| Potassium | ppm | ■ 2 | ■ <1 | ■ 2 | ■ 3 |

Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|--------------|-------|--------|-------|
| Iron | ppm | ■ 208 | ■ 770 | ▲ 1541 | ■ 599 |
| Copper | ppm | ■ 43 | ▲ 252 | ▲ 206 | ■ 64 |
| Lead | ppm | ■ 0 | ■ 6 | ■ <1 | ■ <1 |
| Tin | ppm | ■ 2 | ■ 11 | ■ 10 | ■ 0 |
| Aluminum | ppm | ▲ 4 | ▲ 11 | ■ 12 | ■ 9 |
| Chromium | ppm | ■ 2 | ■ 10 | ■ 18 | ■ 8 |
| Molybdenum | ppm | ■ 12 | ■ 4 | ■ 4 | ■ 2 |
| Nickel | ppm | ■ 2 | ■ 7 | ▲ 13 | ■ 6 |
| Titanium | ppm | <1 | <1 | 2 | 1 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | ■ 2 | ■ 9 | ■ 13 | ■ 7 |
| Vanadium | ppm | 0 | <1 | <1 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|---------------|--------|-------|-------|
| Calcium | ppm | ■ 128 | ■ 650 | ■ 61 | ■ 68 |
| Magnesium | ppm | ■ 43 | ■ 15 | ■ 11 | ■ 10 |
| Zinc | ppm | ■ 101 | ■ 275 | 19 | 33 |
| Phosphorus | ppm | ■ 1013 | ■ 1020 | ■ 904 | ■ 992 |
| Barium | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Boron | ppm | ■ 134 | ■ 162 | ■ 190 | ■ 183 |

Depot: VOLVO0093
Unique No: 1088622
Signed: Sean Felton
Report Date: 21 Feb 2024



CONSTRUCTION EQUIPMENT



GRAPHS

