



CONSTRUCTION EQUIPMENT

VOLVO A40G 342175 - DROP BOX



Sample No: VCP422911
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP422911 | VCP386801 | VCP332841 | VCP337006 |
| Sample Date | 16 Jun 2023 | 15 Sep 2022 | 01 Mar 2022 | 30 Aug 2021 |
| Machine Hours | 9340 | 8071 | 7189 | 6287 |
| Oil Hours | 0 | 500 | 1500 | 2000 |
| Oil Changed | Not Chngd | Changed | Not Chngd | Changed |
| Sample Status | ABNORMAL | NORMAL | NORMAL | ABNORMAL |

RIPA AND ASSOCIATES

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OIL CONDITION

| | | | | | |
|-------------|-----|----------------|-------|-----|----------------|
| Visc @ 40°C | cSt | ▲ 339.8 | ■ 150 | 294 | ▲ 57.91 |
|-------------|-----|----------------|-------|-----|----------------|



CONTAMINATION

| | | | | | |
|-----------|-----|-------------|------|------|-------------|
| Silicon | ppm | ▲ 86 | ■ 10 | ■ 4 | ▲ 54 |
| Sodium | ppm | ■ 1 | ■ 2 | ■ 0 | ■ 10 |
| Potassium | ppm | ■ 0 | ■ <1 | ■ <1 | ■ 4 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|------|------|------|
| Iron | ppm | ▲ 512 | ■ 56 | ■ 58 | ■ 33 |
| Copper | ppm | ■ 0 | ■ <1 | ■ <1 | ■ 1 |
| Lead | ppm | ■ 0 | ■ 0 | ■ 0 | ■ <1 |
| Tin | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Aluminum | ppm | ▲ 11 | ■ 13 | ■ 0 | ■ 9 |
| Chromium | ppm | ■ 6 | ■ <1 | ■ <1 | ■ <1 |
| Molybdenum | ppm | ■ 12 | ■ 5 | ■ 3 | ■ 8 |
| Nickel | ppm | ■ 4 | ■ 0 | ■ 0 | ■ 1 |
| Titanium | ppm | <1 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | ■ 4 | ■ 1 | ■ 1 | ■ 1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------|-------|--------|--------|
| Calcium | ppm | ■ 105 | ■ 91 | ■ 90 | ■ 75 |
| Magnesium | ppm | ■ 32 | ■ 17 | ■ 23 | ■ 0 |
| Zinc | ppm | ■ 67 | 189 | ■ 46 | 48 |
| Phosphorus | ppm | ■ 978 | ■ 881 | ■ 1020 | ■ 1362 |
| Barium | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Boron | ppm | ■ 165 | ■ 76 | ■ 183 | ■ 208 |

Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. Moderate concentration of visible dirt/debris present in the oil. The oil viscosity is higher than normal. Confirm oil type.

Depot: RIPTAM
Unique No: 10552326
Signed: Jonathan Hester
Report Date: 17 Jul 2023



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VOLVO GRAPHS

