



CONSTRUCTION EQUIPMENT

W14719 VOLVO A40G 352936 - FRONT AXLE



Sample No: VCP433547
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: W14719



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP433547 | VCP398347 | VCP384180 | --- |
| Sample Date | 21 Sep 2023 | 29 Dec 2022 | 31 Oct 2022 | --- |
| Machine Hours | 1954 | 963 | 745 | --- |
| Oil Hours | 1000 | 1000 | 500 | --- |
| Oil Changed | Changed | Changed | Not Changd | --- |
| Sample Status | ATTENTION | ATTENTION | ATTENTION | --- |

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OIL CONDITION

| | | | | | |
|-------------|-----|--------------|--------|--------|-----|
| Visc @ 40°C | cSt | ▲ 134 | ▲ 49.3 | ▲ 49.6 | --- |
|-------------|-----|--------------|--------|--------|-----|

CONTAMINATION

| | | | | | |
|-----------|-----|------------|-----|-----|-----|
| Silicon | ppm | ■ 4 | ■ 2 | ■ 5 | --- |
| Sodium | ppm | ■ 0 | ■ 2 | ■ 2 | --- |
| Potassium | ppm | ■ 1 | ■ 4 | ■ 4 | --- |

WEAR METALS

| | | | | | |
|------------|-----|----------------|-------|-------|-----|
| Iron | ppm | ■ 221 | ■ 111 | ■ 276 | --- |
| Copper | ppm | ■ <1 | ■ 1 | ■ 1 | --- |
| Lead | ppm | ■ 0 | ■ <1 | ■ 0 | --- |
| Tin | ppm | ■ 0 | ■ 0 | ■ <1 | --- |
| Aluminum | ppm | ■ 0 | ■ <1 | ■ <1 | --- |
| Chromium | ppm | ■ 4 | ■ 2 | ■ 4 | --- |
| Molybdenum | ppm | ■ 7 | ■ 5 | ■ 11 | --- |
| Nickel | ppm | ■ <1 | ■ <1 | ■ 0 | --- |
| Titanium | ppm | 0 | 0 | 0 | --- |
| Silver | ppm | 0 | 1 | 0 | --- |
| Manganese | ppm | ■ 11 | ■ 7 | ■ 14 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------------|-------|-------|-----|
| Calcium | ppm | ▲ 27 | ■ 16 | ■ 17 | --- |
| Magnesium | ppm | ■ 4 | ■ 2 | ■ 0 | --- |
| Zinc | ppm | ▲ 15 | ■ 14 | ■ 7 | --- |
| Phosphorus | ppm | ▲ 407 | 2300 | 2500 | --- |
| Barium | ppm | ■ 0 | ■ 0 | ■ 0 | --- |
| Boron | ppm | ▲ 20 | ■ 284 | ■ 279 | --- |

Diagnosis
 The oil change at the time of sampling has been noted. 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 oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Depot: VOLVO0080
Unique No: 10662672
Signed: Jonathan Hester
Report Date: 28 Sep 2023



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GRAPHS

