



CONSTRUCTION EQUIPMENT

701224 PRIMORIS VOLVO A40G 352509 - FRONT AXLE



Sample No: VCP451149
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 701224 PRIMORIS



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP451149 | VCP440788 | VCP424856 | VCP365212 |
| Sample Date | 12 Apr 2024 | 16 Nov 2023 | 25 Apr 2023 | 16 Aug 2022 |
| Machine Hours | 6123 | 5500 | 4282 | 3145 |
| Oil Hours | 2000 | 1500 | 3282 | 500 |
| Oil Changed | Not Chngd | Not Chngd | Changed | Not Chngd |
| Sample Status | NORMAL | NORMAL | ATTENTION | ATTENTION |

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OIL CONDITION

| | | | | | |
|-------------|-----|---|--|--|--|
| Visc @ 40°C | cSt | ■ 295 | ■ 294 | ● 51.0 | ● 51.6 |
|-------------|-----|---|--|--|--|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|---|--|--|---|
| Silicon | ppm | ■ 5 | ■ 4 | ■ 6 | ■ 6 |
| Sodium | ppm | ■ <1 | ■ 0 | ■ 0 | ■ <1 |
| Potassium | ppm | ■ 1 | ■ 1 | ■ 4 | ■ 3 |

Diagnosis

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 condition of the oil is acceptable for the time in service.



WEAR METALS

| | | | | | |
|------------|-----|---|---|--|--|
| Iron | ppm | ■ 128 | ■ 84 | ■ 738 | ■ 468 |
| Copper | ppm | ■ 3 | ■ 1 | ■ 4 | ■ 4 |
| Lead | ppm | ■ <1 | ■ 0 | ■ 0 | ■ 0 |
| Tin | ppm | ■ <1 | ■ 0 | ■ 0 | ■ 0 |
| Aluminum | ppm | ■ <1 | ■ 2 | ■ 0 | ■ <1 |
| Chromium | ppm | ■ 1 | ■ <1 | ■ 10 | ■ 6 |
| Molybdenum | ppm | ■ 4 | ■ 3 | ■ 7 | ■ 5 |
| Nickel | ppm | ■ <1 | ■ 0 | ■ 2 | ■ <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | ■ 5 | ■ 4 | ■ 20 | ■ 15 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|--|---|---|---|
| Calcium | ppm | ■ 95 | ■ 42 | ■ 26 | ■ 18 |
| Magnesium | ppm | ■ 13 | ■ 9 | ■ 1 | ■ <1 |
| Zinc | ppm | ■ 42 | ■ 0 | ■ 22 | ■ 13 |
| Phosphorus | ppm | ■ 1108 | ■ 1189 | ■ 2382 | ■ 2469 |
| Barium | ppm | ■ 0 | ■ 3 | ■ 0 | ■ 0 |
| Boron | ppm | ■ 193 | ■ 208 | ■ 120 | ■ 172 |

Depot: VOLVO0093
Unique No: 11047534
Signed: Sean Felton
Report Date: 29 May 2024



CONSTRUCTION EQUIPMENT



GRAPHS

