



CONSTRUCTION EQUIPMENT

SWA534849-10 VOLVO A40G 342112 - FRONT AXLE



Sample No: VCP436144
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SWA534849-10



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP436144 | VCP0007899 | VCP0007900 | VCP0006346 |
| Sample Date | 27 Apr 2024 | 29 Mar 2024 | 29 Mar 2024 | 07 Feb 2023 |
| Machine Hours | 7700 | 7550 | 7550 | 7550 |
| Oil Hours | 0 | 7550 | 7550 | 0 |
| Oil Changed | N/A | N/A | N/A | N/A |
| Sample Status | ABNORMAL | ABNORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 239 | 239 | 149 | 235 |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|--------------|-----|-----|-----|
| Silicon | ppm | 14 | 12 | 8 | 6 |
| Sodium | ppm | <1 | 1 | <1 | 0 |
| Potassium | ppm | <1 | 0 | 0 | 0 |

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. 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 | 1274 | 1016 | 364 | 406 |
| Copper | ppm | 4 | 3 | 0 | 2 |
| Lead | ppm | 0 | 0 | 0 | 0 |
| Tin | ppm | 0 | <1 | <1 | 0 |
| Aluminum | ppm | 2 | 2 | <1 | 1 |
| Chromium | ppm | 21 | 16 | <1 | 7 |
| Molybdenum | ppm | 40 | 28 | 0 | 22 |
| Nickel | ppm | 3 | 2 | <1 | 1 |
| Titanium | ppm | <1 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 23 | 19 | 4 | 9 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|-----|
| Calcium | ppm | 224 | 147 | 8 | 133 |
| Magnesium | ppm | 43 | 31 | 0 | 32 |
| Zinc | ppm | 109 | 76 | 18 | 64 |
| Phosphorus | ppm | 1172 | 1127 | 1482 | 879 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 249 | 202 | 41 | 174 |

Depot: VOLVO0092
Unique No: 11006752
Signed: Doug Bogart
Report Date: 02 May 2024



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GRAPHS

