



CONSTRUCTION EQUIPMENT

661201 BCSW VOLVO A40G 342555 - BOGIE/CENTER AXLE



Sample No: VCP439119
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 661201 BCSW



SAMPLE INFORMATION

| Sample Number | VCP439119 | VCP405164 | VCP349429 | VCP317554 |
|---------------|-------------|-------------|-------------|-------------|
| Sample Date | 02 Feb 2024 | 21 Apr 2023 | 07 Jun 2022 | 16 Jul 2021 |
| Machine Hours | 11136 | 9562 | 7678 | 6086 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Not Changd | Not Changd | Not Changd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| Visc @ 40°C | cSt | 286 | 286 | 292 | 298 |
|-------------|-----|-----|-----|-----|-----|
| | | | | | |



CONTAMINATION

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

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 | 217 | 187 | 179 | 86 |
| Copper | ppm | 7 | 6 | 4 | 2 |
| Lead | ppm | <1 | 0 | <1 | 0 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | 2 | <1 | <1 | 0 |
| Chromium | ppm | 2 | 2 | 2 | 1 |
| Molybdenum | ppm | 3 | 4 | 4 | 4 |
| Nickel | ppm | 2 | <1 | 0 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | <1 | 0 | <1 | 0 |
| Manganese | ppm | 4 | 4 | 3 | 2 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Calcium | ppm | 182 | 177 | 146 | 151 |
| Magnesium | ppm | 27 | 31 | 28 | 25 |
| Zinc | ppm | 116 | 106 | 90 | 67 |
| Phosphorus | ppm | 1047 | 964 | 943 | 928 |
| Barium | ppm | 0 | 0 | 2 | 0 |
| Boron | ppm | 170 | 161 | 197 | 230 |

Depot: VOLVO0096
Unique No: 10871814
Signed: Wes Davis
Report Date: 09 Feb 2024



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GRAPHS

