



CONSTRUCTION EQUIPMENT

VOLVO A40G 352852 - BOGIE/CENTER AXLE



Sample No: VCP451491
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP451491 | VCP398042 | VCP364582 | VCP357472 |
| Sample Date | 09 May 2024 | 10 Mar 2023 | 18 Aug 2022 | 01 Apr 2022 |
| Machine Hours | 5118 | 2973 | 1982 | 1061 |
| Oil Hours | 0 | 1000 | 500 | 1061 |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | Changed |
| Sample Status | NORMAL | ATTENTION | ATTENTION | NORMAL |

RIPA AND ASSOCIATES

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|------|------|------|
| Visc @ 40°C | cSt | 285 | 60.5 | 61.3 | 50.2 |
|-------------|-----|------------|------|------|------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|--------------|-----|-----|-----|
| Silicon | ppm | 5 | 4 | 2 | 4 |
| Sodium | ppm | <1 | 1 | 0 | 2 |
| Potassium | ppm | 0 | <1 | 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 | 36 | 246 | 174 | 243 |
| Copper | ppm | <1 | <1 | <1 | 3 |
| Lead | ppm | 0 | 0 | 0 | 0 |
| Tin | ppm | 0 | 0 | 0 | <1 |
| Aluminum | ppm | 0 | <1 | <1 | <1 |
| Chromium | ppm | <1 | 3 | 2 | 4 |
| Molybdenum | ppm | 4 | 2 | 2 | 3 |
| Nickel | ppm | 0 | 0 | 0 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | <1 | 0 |
| Manganese | ppm | 1 | 9 | 5 | 10 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 214 | 30 | 13 | 131 |
| Magnesium | ppm | 53 | 4 | <1 | 0 |
| Zinc | ppm | 143 | 11 | 6 | 48 |
| Phosphorus | ppm | 1078 | 2232 | 2262 | 2282 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 230 | 226 | 242 | 247 |

Depot: RIPTAM
Unique No: 11030520
Signed: Wes Davis
Report Date: 15 May 2024



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GRAPHS

