



CONSTRUCTION EQUIPMENT

VOLVO A45G 352916 - REAR AXLE



Sample No: VCP450925
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP450925 | VCP435597 | VCP429388 | VCP419132 |
| Sample Date | 08 May 2024 | 26 Jan 2024 | 11 Oct 2023 | 25 Jul 2023 |
| Machine Hours | 4510 | 4034 | 3517 | 3005 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Chngd | Changed | Not Chngd | Not Chngd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|------|------|------|
| Visc @ 40°C | cSt | 246 | 50.4 | 49.8 | 49.8 |
|-------------|-----|------------|------|------|------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-----------|-----|-----|-----|
| Silicon | ppm | 10 | 8 | 6 | 12 |
| Sodium | ppm | 2 | 2 | 4 | 3 |
| Potassium | ppm | 4 | 10 | 5 | 5 |

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 | 103 | 173 | 140 | 201 |
| Copper | ppm | <1 | 3 | 2 | 1 |
| Lead | ppm | 0 | 0 | 0 | 0 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | <1 | 2 | 0 | <1 |
| Chromium | ppm | 2 | 2 | 2 | 3 |
| Molybdenum | ppm | 15 | 11 | 8 | 12 |
| Nickel | ppm | 0 | 1 | 0 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 6 | 17 | 13 | 15 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 195 | 164 | 106 | 113 |
| Magnesium | ppm | 52 | 2 | 14 | 0 |
| Zinc | ppm | 129 | 91 | 45 | 53 |
| Phosphorus | ppm | 1107 | 3135 | 2165 | 2524 |
| Barium | ppm | 0 | <1 | 0 | 0 |
| Boron | ppm | 211 | 321 | 203 | 242 |

Depot: SAIBIR
Unique No: 11035998
Signed: Sean Felton
Report Date: 22 May 2024



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GRAPHS

