



CONSTRUCTION EQUIPMENT

580547 VOLVO A40G 3525 13 - BOGIE/CENTER AXLE



Sample No: VCP411981
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 580547



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP411981 | VCP389380 | VCP360254 | VCP320529 |
| Sample Date | 31 Jul 2023 | 26 Sep 2022 | 16 Mar 2022 | 18 Aug 2021 |
| Machine Hours | 5166 | 3603 | 2597 | 1430 |
| Oil Hours | 2000 | 500 | 1597 | 1500 |
| Oil Changed | Changed | Not Changd | Changed | Not Changd |
| Sample Status | NORMAL | NORMAL | NORMAL | ATTENTION |

RIPA AND ASSOCIATES

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T:
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OIL CONDITION

| | | | | | |
|-------------|-----|-------------|------|------|------|
| Visc @ 40°C | cSt | 82.2 | 74.3 | 51.9 | 52.3 |
|-------------|-----|-------------|------|------|------|



CONTAMINATION

| | | | | | |
|-----------|-----|--------------|---|---|---|
| Silicon | ppm | 3 | 3 | 3 | 4 |
| Sodium | ppm | 0 | 0 | 2 | 2 |
| Potassium | ppm | <1 | 0 | 2 | 3 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|-----|-----|
| Iron | ppm | 53 | 47 | 213 | 346 |
| Copper | ppm | 3 | <1 | 3 | 3 |
| Lead | ppm | 0 | 0 | 0 | 0 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | <1 | 1 | <1 | 0 |
| Chromium | ppm | <1 | <1 | 3 | 6 |
| Molybdenum | ppm | <1 | <1 | 3 | 6 |
| Nickel | ppm | <1 | 0 | 1 | 2 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | <1 | 0 |
| Manganese | ppm | 2 | 2 | 14 | 17 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 90 | 13 | 53 | 18 |
| Magnesium | ppm | 4 | <1 | 2 | 2 |
| Zinc | ppm | 55 | 18 | 27 | 4 |
| Phosphorus | ppm | 1892 | 1952 | 2599 | 2373 |
| Barium | ppm | 1 | 0 | 0 | 0 |
| Boron | ppm | 256 | 253 | 215 | 334 |

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.

Depot: RIPTAM
Unique No: 10602478
Signed: Sean Felton
Report Date: 14 Aug 2023



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GRAPHS

