



CONSTRUCTION EQUIPMENT

4143HS MACMOL VOLVO A40D 12682 - FRONT AXLE



Sample No: VCP421987
Oil Type: GEAR OIL SAE 80W140
Job No: 4143HS MACMOL



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP421987 | VC309100 | --- | --- |
| Sample Date | 11 Aug 2023 | 18 Sep 2008 | --- | --- |
| Machine Hours | 14321 | 3034 | --- | --- |
| Oil Hours | 0 | 624 | --- | --- |
| Oil Changed | Not Chngd | Not Chngd | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

HIGHWAY EQUIPMENT & SUPPLY CO MAIN
 PO BOX 1957
 HARRISBURG, PA
 US 17105
 Contact: BOB WILLARD



OIL CONDITION

| | | | | | |
|-------------|-----|------------|-------|-----|-----|
| Visc @ 40°C | cSt | 248 | 268.7 | --- | --- |
|-------------|-----|------------|-------|-----|-----|

T: (717)564-3031
 F: (717)564-3568



CONTAMINATION

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

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W140. Please confirm.



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Iron | ppm | 13 | 158 | --- | --- |
| Copper | ppm | 2 | 8 | --- | --- |
| Lead | ppm | 0 | <1 | --- | --- |
| Tin | ppm | <1 | 0 | --- | --- |
| Aluminum | ppm | 0 | <1 | --- | --- |
| Chromium | ppm | <1 | 5 | --- | --- |
| Molybdenum | ppm | 0 | 3 | --- | --- |
| Nickel | ppm | 0 | 2 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | 7 | 0 | --- | --- |
| Manganese | ppm | <1 | 8 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |

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.



ADDITIVES

| | | | | | |
|------------|-----|-------------|-----|-----|-----|
| Calcium | ppm | 70 | 227 | --- | --- |
| Magnesium | ppm | 4 | 4 | --- | --- |
| Zinc | ppm | 13 | 111 | --- | --- |
| Phosphorus | ppm | 1395 | 808 | --- | --- |
| Barium | ppm | 0 | <1 | --- | --- |
| Boron | ppm | 257 | 45 | --- | --- |

Depot: VOLVO0025
Unique No: 10615320
Signed: Wes Davis
Report Date: 22 Aug 2023



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VOLVO GRAPHS

