



CONSTRUCTION EQUIPMENT

4143HS MACMOL VOLVO A40D 12682 - DROP BOX



Sample No: VCP421980
Oil Type: GEAR OIL LS 80W90
Job No: 4143HS MACMOL



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP421980 | VC307378 | --- | --- |
| 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
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US 17105
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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-------|-----|-----|
| Visc @ 40°C | cSt | 183 | 239.0 | --- | --- |
|-------------|-----|------------|-------|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|----------|----|-----|-----|
| Silicon | ppm | 7 | 18 | --- | --- |
| Sodium | ppm | 3 | 34 | --- | --- |
| Potassium | ppm | 0 | 0 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Iron | ppm | 30 | 114 | --- | --- |
| Copper | ppm | 2 | 6 | --- | --- |
| Lead | ppm | 0 | 3 | --- | --- |
| Tin | ppm | 0 | 0 | --- | --- |
| Aluminum | ppm | <1 | 2 | --- | --- |
| Chromium | ppm | 0 | 2 | --- | --- |
| Molybdenum | ppm | <1 | 8 | --- | --- |
| Nickel | ppm | 0 | <1 | --- | --- |
| Titanium | ppm | <1 | <1 | --- | --- |
| Silver | ppm | 0 | 0 | --- | --- |
| Manganese | ppm | <1 | 5 | --- | --- |
| Vanadium | ppm | <1 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|-----|-----|-----|
| Calcium | ppm | 459 | 328 | --- | --- |
| Magnesium | ppm | 6 | 40 | --- | --- |
| Zinc | ppm | 215 | 244 | --- | --- |
| Phosphorus | ppm | 1108 | 828 | --- | --- |
| Barium | ppm | 0 | <1 | --- | --- |
| Boron | ppm | 153 | 18 | --- | --- |

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 LS 80W90. Please confirm. 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: VOLVO0025
Unique No: 10615318
Signed: Wes Davis
Report Date: 22 Aug 2023



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GRAPHS

