



CONSTRUCTION EQUIPMENT

WO7013227 VOLVO A45G 352347 - DIESEL ENGINE



Sample No: VCP409392
Oil Type: MOBIL 15W40
Job No: WO7013227



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP409392 | VCP338052 | --- | --- |
| Sample Date | 09 Aug 2023 | 10 Mar 2023 | --- | --- |
| Machine Hours | 3526 | 3538 | --- | --- |
| Oil Hours | 500 | 600 | --- | --- |
| Oil Changed | Changed | Changed | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C | cSt | █ 13.0 | █ 12.8 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 5.9 | █ 10.2 | --- | --- |
| Oxidation (PA) | % | 63 | 80 | --- | --- |

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

| | | | | | |
|----------------|-----|-------|-------|-----|-----|
| Soot % | % | █ 0.4 | █ 0.3 | --- | --- |
| Nitration (PA) | % | 81 | 66 | --- | --- |
| Sulfation (PA) | % | 57 | 61 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | <1.0 | --- | --- |
| Silicon | ppm | █ 4 | █ 5 | --- | --- |
| Sodium | ppm | █ 2 | █ 0 | --- | --- |
| Potassium | ppm | █ <1 | █ 1 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | █ 13 | █ 11 | --- | --- |
| Copper | ppm | █ 2 | █ 1 | --- | --- |
| Lead | ppm | █ 2 | █ <1 | --- | --- |
| Tin | ppm | █ <1 | █ <1 | --- | --- |
| Aluminum | ppm | █ 1 | █ 2 | --- | --- |
| Chromium | ppm | █ <1 | █ <1 | --- | --- |
| Molybdenum | ppm | █ 59 | █ 42 | --- | --- |
| Nickel | ppm | █ 2 | █ 2 | --- | --- |
| Titanium | ppm | <1 | <1 | --- | --- |
| Silver | ppm | █ 0 | █ 0 | --- | --- |
| Manganese | ppm | █ <1 | <1 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | █ 2145 | █ 1647 | --- | --- |
| Magnesium | ppm | █ 188 | █ 515 | --- | --- |
| Zinc | ppm | █ 1193 | █ 1088 | --- | --- |
| Phosphorus | ppm | █ 969 | █ 897 | --- | --- |
| Barium | ppm | █ 0 | █ 0 | --- | --- |
| Boron | ppm | █ 22 | █ 43 | --- | --- |

Depot: VOLVO8882
Unique No: 10603838
Signed: Wes Davis
Report Date: 15 Aug 2023



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GRAPHS

