



CONSTRUCTION EQUIPMENT

W0230587 VOLVO A40G 752123 - DIESEL ENGINE



Sample No: VCP429660
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: W0230587



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP429660 | --- | --- | --- |
| Sample Date | 14 May 2024 | --- | --- | --- |
| Machine Hours | 0 | --- | --- | --- |
| Oil Hours | 774 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | ● 10.7 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 4.0 | --- | --- | --- |
| Oxidation (PA) | % | ■ 59 | --- | --- | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | ■ 0.2 | --- | --- | --- |
| Nitration (PA) | % | ■ 77 | --- | --- | --- |
| Sulfation (PA) | % | ■ 59 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | ■ 0.4 | --- | --- | --- |
| Silicon | ppm | ▲ 25 | --- | --- | --- |
| Sodium | ppm | ■ 4 | --- | --- | --- |
| Potassium | ppm | ■ 2 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | ■ 22 | --- | --- | --- |
| Copper | ppm | ■ 121 | --- | --- | --- |
| Lead | ppm | ■ <1 | --- | --- | --- |
| Tin | ppm | ■ 4 | --- | --- | --- |
| Aluminum | ppm | ■ 3 | --- | --- | --- |
| Chromium | ppm | ■ 0 | --- | --- | --- |
| Molybdenum | ppm | ■ 79 | --- | --- | --- |
| Nickel | ppm | ■ 3 | --- | --- | --- |
| Titanium | ppm | ■ 0 | --- | --- | --- |
| Silver | ppm | ■ <1 | --- | --- | --- |
| Manganese | ppm | ■ 3 | --- | --- | --- |
| Vanadium | ppm | ■ 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ■ 2461 | --- | --- | --- |
| Magnesium | ppm | ■ 59 | --- | --- | --- |
| Zinc | ppm | ■ 1226 | --- | --- | --- |
| Phosphorus | ppm | ■ 1015 | --- | --- | --- |
| Barium | ppm | ■ 0 | --- | --- | --- |
| Boron | ppm | ■ 53 | --- | --- | --- |

Depot: VOLVO0081
Unique No: 11042540
Signed: Don Baldrige
Report Date: 24 May 2024



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GRAPHS

