



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO A25 752438 - DIESEL ENGINE



Sample No: VCP443947
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TUCKER PAVING



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP443947 | VCP382852 | VCP389362 | --- |
| Sample Date | 18 Jun 2024 | 22 Feb 2023 | 18 Oct 2022 | --- |
| Machine Hours | 3330 | 1047 | 523 | --- |
| Oil Hours | 0 | 500 | 500 | --- |
| Oil Changed | Changed | Changed | Changed | --- |
| Sample Status | ATTENTION | ABNORMAL | ABNORMAL | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|-----|
| Visc @ 100°C | cSt | 12.2 | 12.0 | 10.6 | --- |
| Base Number (BN) | mg KOH/g | 9.5 | 8.9 | 7.2 | --- |
| Oxidation (PA) | % | 76 | 81 | 63 | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|-----|-----|
| Water | % | NEG | NEG | NEG | --- |
| Soot % | % | 0.3 | 0.3 | 0.3 | --- |
| Nitration (PA) | % | 63 | 69 | 92 | --- |
| Sulfation (PA) | % | 59 | 64 | 57 | --- |
| Glycol | % | NEG | NEG | NEG | --- |
| Fuel | % | <1.0 | <1.0 | 0.5 | --- |
| Silicon | ppm | 3 | 5 | 27 | --- |
| Sodium | ppm | 1 | 0 | 3 | --- |
| Potassium | ppm | 1 | 2 | 6 | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Iron | ppm | 3 | 10 | 21 | --- |
| Copper | ppm | 1 | 186 | 526 | --- |
| Lead | ppm | 0 | <1 | <1 | --- |
| Tin | ppm | 0 | 1 | 3 | --- |
| Aluminum | ppm | 2 | 2 | 3 | --- |
| Chromium | ppm | <1 | <1 | <1 | --- |
| Molybdenum | ppm | 42 | 51 | 86 | --- |
| Nickel | ppm | 1 | 3 | 2 | --- |
| Titanium | ppm | 0 | <1 | <1 | --- |
| Silver | ppm | 0 | <1 | 6 | --- |
| Manganese | ppm | 0 | 1 | 5 | --- |
| Vanadium | ppm | 0 | 0 | <1 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|-----|
| Calcium | ppm | 1587 | 1651 | 2237 | --- |
| Magnesium | ppm | 530 | 430 | 42 | --- |
| Zinc | ppm | 1163 | 1087 | 1190 | --- |
| Phosphorus | ppm | 919 | 866 | 1003 | --- |
| Barium | ppm | 0 | 2 | 0 | --- |
| Boron | ppm | 39 | 25 | 28 | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0093
Unique No: 11098952
Signed: Jonathan Hester
Report Date: 27 Jun 2024



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GRAPHS

