



CONSTRUCTION EQUIPMENT

X49248 TADANO GR150 FD3953 - DIESEL ENGINE



Sample No: VCP408414
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X49248



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP408414 | VCP408402 | --- | --- |
| Sample Date | 03 Jul 2024 | 05 Jul 2023 | --- | --- |
| Machine Hours | 2694 | 1485 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | N/A | N/A | --- | --- |
| Sample Status | NORMAL | ATTENTION | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C | cSt | █ 13.7 | ● 11.8 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 6.5 | █ 7.3 | --- | --- |
| Oxidation (PA) | % | 73 | 59 | --- | --- |

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 acceptable for the time in service.



CONTAMINATION

| | | | | | |
|----------------|-----|-------|-------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Soot % | % | █ 0.2 | █ 0.3 | --- | --- |
| Nitration (PA) | % | 70 | 73 | --- | --- |
| Sulfation (PA) | % | 58 | 58 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | █ 0.3 | --- | --- |
| Silicon | ppm | █ 6 | █ 20 | --- | --- |
| Sodium | ppm | █ 2 | █ 2 | --- | --- |
| Potassium | ppm | █ 7 | █ 3 | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | █ 12 | █ 53 | --- | --- |
| Copper | ppm | █ 3 | █ 89 | --- | --- |
| Lead | ppm | █ 0 | █ 2 | --- | --- |
| Tin | ppm | █ <1 | █ 1 | --- | --- |
| Aluminum | ppm | █ 1 | █ 4 | --- | --- |
| Chromium | ppm | █ 0 | █ <1 | --- | --- |
| Molybdenum | ppm | █ 4 | █ 41 | --- | --- |
| Nickel | ppm | █ <1 | █ 1 | --- | --- |
| Titanium | ppm | 0 | █ <1 | --- | --- |
| Silver | ppm | █ <1 | █ 1 | --- | --- |
| Manganese | ppm | █ <1 | █ 3 | --- | --- |
| Vanadium | ppm | 0 | <1 | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | █ 2151 | █ 1859 | --- | --- |
| Magnesium | ppm | █ 78 | █ 271 | --- | --- |
| Zinc | ppm | █ 1202 | █ 1141 | --- | --- |
| Phosphorus | ppm | █ 1022 | █ 903 | --- | --- |
| Barium | ppm | █ 0 | █ 0 | --- | --- |
| Boron | ppm | █ 135 | █ 0 | --- | --- |

Depot: VOLVO6244
Unique No: 11115398
Signed: Don Baldrige
Report Date: 11 Jul 2024



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GRAPHS

