



CONSTRUCTION EQUIPMENT

715018 PRINCE VOLVO L90H 626297 - DIESEL ENGINE



Sample No: VCP449534
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 715018 PRINCE



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP449534 | VCP440714 | VCP412624 | VCP394018 |
| Sample Date | 04 May 2024 | 04 Oct 2023 | 21 Jul 2023 | 20 Feb 2023 |
| Machine Hours | 2694 | 2127 | 1785 | 1172 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
 9601 BOGGY CREEK RD
 ORLANDO, FL
 US 32824
 Contact: Robert LaPlante
 robert.laplante@altg.com
 T: (407)508-9736
 F: (407)659-8720



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 12.9 | 12.9 | 13.1 | 13.3 |
| Base Number (BN) | mg KOH/g | 9.5 | 10.7 | 10.3 | 7.7 |
| Oxidation (PA) | % | 82 | 79 | 81 | 47 |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Water | % | NEG | NEG | NEG | NEG |
| Soot % | % | 0.4 | 0.3 | 0.4 | 0.1 |
| Nitration (PA) | % | 63 | 51 | 59 | 47 |
| Sulfation (PA) | % | 61 | 60 | 61 | 47 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 8 | 9 | 6 | 7 |
| Sodium | ppm | 2 | 3 | 3 | 4 |
| Potassium | ppm | <1 | <1 | 0 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 12 | 8 | 15 | 15 |
| Copper | ppm | 3 | 4 | <1 | 2 |
| Lead | ppm | 0 | <1 | 0 | <1 |
| Tin | ppm | 1 | <1 | <1 | 1 |
| Aluminum | ppm | 4 | 2 | 3 | 4 |
| Chromium | ppm | <1 | <1 | <1 | <1 |
| Molybdenum | ppm | 43 | 42 | 46 | 44 |
| Nickel | ppm | 0 | 0 | 0 | 0 |
| Titanium | ppm | 0 | 0 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 1 | <1 | <1 | <1 |
| Vanadium | ppm | 0 | 0 | <1 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1795 | 1749 | 1814 | 1693 |
| Magnesium | ppm | 512 | 495 | 565 | 534 |
| Zinc | ppm | 1174 | 1172 | 1154 | 1095 |
| Phosphorus | ppm | 1013 | 952 | 964 | 908 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 39 | 47 | 39 | 41 |

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.

Depot: VOLVO0096
Unique No: 11018424
Signed: Wes Davis
Report Date: 09 May 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

