



CONSTRUCTION EQUIPMENT

D12626 VOLVO L120F 72094 - DIESEL ENGINE



Sample No: VCP419009
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: D12626



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP419009 | VCP381330 | VCP391326 | --- |
| Sample Date | 17 Aug 2023 | 10 Feb 2023 | 27 Oct 2022 | --- |
| Machine Hours | 7021 | 6754 | 6635 | --- |
| Oil Hours | 386 | 100 | 0 | --- |
| Oil Changed | Changed | Changed | Not Changd | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |

ARING EQUIPMENT COMPANY INC - MAIN (MILWAUKEE)
 13001 W SILVERE SPRING DR
 BUTLER, WI
 US 53007
 Contact: GLENN OTTENBACHER
 gottenbacher@aring.com
 T: (262)282-0715
 F: (262)781-5053



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|-----|
| Visc @ 100°C | cSt | 12.7 | 12.3 | 13.0 | --- |
| Base Number (BN) | mg KOH/g | 10.6 | 9.8 | 9.5 | --- |
| Oxidation (PA) | % | 82 | 72 | 76 | --- |

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 % | % | 0.1 | 0.1 | 0.4 | --- |
| Nitration (PA) | % | 49 | 44 | 86 | --- |
| Sulfation (PA) | % | 62 | 59 | 66 | --- |
| Glycol | % | NEG | NEG | NEG | --- |
| Fuel | % | <1.0 | 0.5 | <1.0 | --- |
| Silicon | ppm | 8 | 15 | 7 | --- |
| Sodium | ppm | 3 | 4 | 0 | --- |
| Potassium | ppm | 0 | 1 | 0 | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|-----|
| Iron | ppm | 6 | 13 | 4 | --- |
| Copper | ppm | 2 | 11 | <1 | --- |
| Lead | ppm | 0 | 2 | <1 | --- |
| Tin | ppm | <1 | <1 | <1 | --- |
| Aluminum | ppm | <1 | 2 | 1 | --- |
| Chromium | ppm | 2 | 4 | <1 | --- |
| Molybdenum | ppm | 38 | 40 | 42 | --- |
| Nickel | ppm | 0 | 0 | 0 | --- |
| Titanium | ppm | <1 | 0 | 0 | --- |
| Silver | ppm | 0 | 1 | 0 | --- |
| Manganese | ppm | <1 | 3 | <1 | --- |
| Vanadium | ppm | <1 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|-----|
| Calcium | ppm | 1707 | 1451 | 1758 | --- |
| Magnesium | ppm | 499 | 545 | 536 | --- |
| Zinc | ppm | 1106 | 1036 | 907 | --- |
| Phosphorus | ppm | 927 | 905 | 759 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | 61 | 81 | 61 | --- |

Depot: VOLVO0069
Unique No: 10615937
Signed: Wes Davis
Report Date: 22 Aug 2023



CONSTRUCTION EQUIPMENT



GRAPHS

