



CONSTRUCTION EQUIPMENT

23868 VOLVO L70H 624322 - DIESEL ENGINE



Sample No: VCP426916
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 23868



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP426916 | VCP399948 | VCP383965 | VCP342545 |
| Sample Date | 10 Aug 2023 | 03 Apr 2023 | 01 Dec 2022 | 28 Apr 2022 |
| Machine Hours | 4406 | 3409 | 2572 | 991 |
| Oil Hours | 0 | 1000 | 500 | 0 |
| Oil Changed | Changed | Changed | Changed | N/A |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |



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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|------|
| Visc @ 100°C | cSt | 13.0 | 13.1 | 13.2 | 12.9 |
| Base Number (BN) | mg KOH/g | 9.8 | 10.0 | 10.1 | 11.6 |
| Oxidation (PA) | % | 82 | 86 | 92 | 83 |



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|------|
| Soot % | % | 0.2 | 0.2 | 0.3 | 0.1 |
| Nitration (PA) | % | 69 | 68 | 86 | 58 |
| Sulfation (PA) | % | 59 | 62 | 66 | 64 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | <1.0 | <1.0 | <1.0 | <1.0 |
| Silicon | ppm | 6 | 10 | 8 | 8 |
| Sodium | ppm | 3 | 5 | 2 | 2 |
| Potassium | ppm | <1 | 1 | 0 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 12 | 21 | 21 | 12 |
| Copper | ppm | 2 | 4 | 6 | 2 |
| Lead | ppm | <1 | 0 | <1 | <1 |
| Tin | ppm | <1 | 1 | 2 | 1 |
| Aluminum | ppm | 3 | 7 | 5 | 6 |
| Chromium | ppm | 1 | 2 | 1 | <1 |
| Molybdenum | ppm | 42 | 68 | 54 | 45 |
| Nickel | ppm | <1 | <1 | 0 | 0 |
| Titanium | ppm | <1 | 0 | 0 | 0 |
| Silver | ppm | <1 | 0 | 0 | 0 |
| Manganese | ppm | <1 | <1 | <1 | <1 |
| Vanadium | ppm | <1 | <1 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 1825 | 2766 | 1700 | 1718 |
| Magnesium | ppm | 544 | 840 | 555 | 561 |
| Zinc | ppm | 1152 | 1860 | 1041 | 1153 |
| Phosphorus | ppm | 947 | 1498 | 868 | 965 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 34 | 67 | 53 | 53 |

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: VOLVO3387
Unique No: 10608028
Signed: Wes Davis
Report Date: 21 Aug 2023



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VOLVO GRAPHS

