



CONSTRUCTION EQUIPMENT

G07470 VOLVO A30F 82282 - DIESEL ENGINE



Sample No: VCP409818
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: G07470



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP409818 | VCP194836 | VCP193884 | VCP189112 |
| Sample Date | 05 Jul 2023 | 28 Jun 2017 | 03 May 2017 | 15 Mar 2017 |
| Machine Hours | 15580 | 6549 | 6252 | 5985 |
| Oil Hours | 0 | 250 | 250 | 250 |
| Oil Changed | N/A | Changed | Changed | Changed |
| Sample Status | ABNORMAL | NORMAL | NORMAL | ATTENTION |

OCEAN COUNTY LANDFILL
 PO BOX 207
 BELLFORD, NJ
 US 07718
 Contact: SERVICE MANAGER

OIL CONDITION

| | | | | | |
|------------------|----------|---------------|---------|---------|----------------|
| Visc @ 100°C | cSt | ▲ 11.2 | ■ 12.08 | ■ 11.77 | ▲ 11.67 |
| Base Number (BN) | mg KOH/g | ■ 6.7 | --- | --- | --- |
| Oxidation (PA) | % | 47 | ■ 64 | ■ 64 | ■ 72 |

T: (732)787-0226
 F: (732)495-6225

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

CONTAMINATION

| | | | | | |
|----------------|-----|--------------|-------|------|-------|
| Soot % | % | ■ 0.2 | ■ 0.1 | ■ 0 | ■ 0 |
| Nitration (PA) | % | 63 | ■ 50 | ■ 50 | ■ 58 |
| Sulfation (PA) | % | 50 | ■ 55 | ■ 44 | ■ 55 |
| Glycol | % | NEG | NEG | NEG | NEG |
| Fuel | % | ▲ 2.9 | <1.0 | <1.0 | ■ 0.6 |
| Silicon | ppm | ■ 6 | ■ 5 | ■ 4 | ■ 7 |
| Sodium | ppm | ■ 1 | ■ 9 | ■ 13 | ■ 14 |
| Potassium | ppm | ■ 2 | ■ 2 | ■ 1 | ■ <1 |

WEAR METALS

| | | | | | |
|------------|-----|----------------|------|------|------|
| Iron | ppm | ■ 7 | ■ 7 | ■ 6 | ■ 5 |
| Copper | ppm | ■ 1 | ■ <1 | ■ <1 | ■ <1 |
| Lead | ppm | ■ 0 | ■ 0 | ■ 0 | ■ <1 |
| Tin | ppm | ■ <1 | ■ 0 | ■ 7 | ■ 4 |
| Aluminum | ppm | ■ 4 | ■ 2 | ■ 2 | ■ 2 |
| Chromium | ppm | ■ <1 | ■ <1 | ■ <1 | ■ 0 |
| Molybdenum | ppm | ■ 12 | ■ 48 | ■ 45 | ■ 51 |
| Nickel | ppm | ■ 0 | ■ 0 | ■ 0 | ■ <1 |
| Titanium | ppm | 12 | 0 | 0 | 0 |
| Silver | ppm | ■ 0 | 0 | 0 | 0 |
| Manganese | ppm | ■ <1 | ■ <1 | ■ <1 | ■ <1 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|---------------|--------|--------|--------|
| Calcium | ppm | ■ 2030 | ■ 1784 | ■ 1601 | ■ 1545 |
| Magnesium | ppm | ■ 227 | ■ 511 | ■ 458 | ■ 484 |
| Zinc | ppm | ■ 1098 | ■ 896 | 840 | ■ 908 |
| Phosphorus | ppm | ■ 910 | ■ 758 | ■ 756 | ■ 785 |
| Barium | ppm | ■ 0 | ■ <1 | ■ 0 | ■ 0 |
| Boron | ppm | ■ 30 | ■ 34 | ■ 33 | ■ 40 |

Depot: OCEBED
Unique No: 10550006
Signed: Angela Borella
Report Date: 12 Jul 2023



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VOLVO GRAPHS

