



CONSTRUCTION EQUIPMENT

VOLVO A30G 742101 - DIESEL ENGINE



Sample No: VCP433963
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | VCP433963 | VCP398589 | --- | --- |
| Sample Date | 29 Sep 2023 | 09 Dec 2022 | --- | --- |
| Machine Hours | 5980 | 5682 | --- | --- |
| Oil Hours | 500 | 0 | --- | --- |
| Oil Changed | Changed | Not Changd | --- | --- |
| Sample Status | ABNORMAL | ABNORMAL | --- | --- |

ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
 Contact: JOSH GAVIN



OIL CONDITION

| | | | | | |
|------------------|----------|---------------|--------|-----|-----|
| Visc @ 100°C | cSt | ▲ 11.8 | ▲ 11.8 | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 9.7 | ■ 7.3 | --- | --- |
| Oxidation (PA) | % | 73 | 50 | --- | --- |

T: (585)344-1931
 F: (315)437-8558

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity.



CONTAMINATION

| | | | | | |
|----------------|-----|--------------|-------|-----|-----|
| Soot % | % | ■ 0.2 | ■ 0.3 | --- | --- |
| Nitration (PA) | % | 59 | 72 | --- | --- |
| Sulfation (PA) | % | 58 | 55 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | ▲ 2.9 | ▲ 3.2 | --- | --- |
| Silicon | ppm | ■ 5 | ■ 3 | --- | --- |
| Sodium | ppm | ■ 2 | ■ 0 | --- | --- |
| Potassium | ppm | ■ 0 | ■ 2 | --- | --- |



WEAR METALS

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



ADDITIVES

| | | | | | |
|------------|-----|---------------|--------|-----|-----|
| Calcium | ppm | ■ 1704 | ■ 2229 | --- | --- |
| Magnesium | ppm | ■ 436 | ■ 129 | --- | --- |
| Zinc | ppm | ■ 1113 | ■ 1079 | --- | --- |
| Phosphorus | ppm | ■ 933 | ■ 903 | --- | --- |
| Barium | ppm | ■ 0 | ■ 0 | --- | --- |
| Boron | ppm | ■ 52 | ■ 17 | --- | --- |

Depot: VOLVO0142
Unique No: 10682089
Signed: Doug Bogart
Report Date: 18 Oct 2023



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GRAPHS

