CONSTRUCTION EQUIPMENT

Sample No: VCP436812 **Oil Type:**

ZOTAZ

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 Job No: 661670 ALTA RENTS

SAMPLE INFORMATION

| Sample Number | - | VCP436812 | | |
|-----------------|-------------|-------------|------|--|
| Sample Date | | 26 Jan 2024 | | |
| Machine Hours | | 523 | | |
| Oil Hours | | 0 | | |
| Oil Changed | | Changed | | |
| Sample Status | | ABNORMAL | | |
| | | | | |
| OIL CON | | | | |
| | | | | |
| Visc @ 100°C | cSt | 10.8 | | |
| Base Number (BN | J) mg KOH/g | 5.0 | | |
| Oxidation (PA) | % | 67 | | |
| | | | | |
| | INATION | | | |
| | | | | |
| Water | % | NEG | | |
| Soot % | % | 0.1 | | |
| Nitration (PA) | % | 82 | | |
| Sulfation (PA) | % | 58 | | |
| Glycol | % | NEG | | |
| Fuel | % | 0.7 | | |
| Silicon | ppm | 26 | | |
| Sodium | ppm | 4 | | |
| Potassium | ppm | 5 | | |
| | | | | |

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| Iron | ppm | ■10 | | |
|------------|-----|----------|------|------|
| Copper | ppm | <u> </u> | | |
| Lead | ppm | 2 | | |
| Tin | ppm | 2 | | |
| Aluminum | ppm | 3 | | |
| Chromium | ppm | 0 | | |
| Molybdenum | ppm | 84 | | |
| Nickel | ppm | 1 | | |
| Titanium | ppm | 0 | | |
| Silver | ppm | 0 | | |
| Manganese | ppm | 2 | | |
| Vanadium | maa | <1 | | |

| ADDITIVES | | | | | | |
|------------|-----|-------------|--|--|--|--|
| Calcium | ppm | 2102 | | | | |
| Magnesium | ppm | 33 | | | | |
| Zinc | ppm | 1196 | | | | |
| Phosphorus | ppm | 1004 | | | | |
| Barium | ppm | 0 | | | | |
| Boron | ppm | 25 | | | | |



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

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0096 Unique No: 10857626 Signed: Jonathan Hester Report Date: 02 Feb 2024

Report Id: VOLVO0096 [WUSCAR] 06075535 (Generated: 02/02/2024 10:09:57) Rev: 1

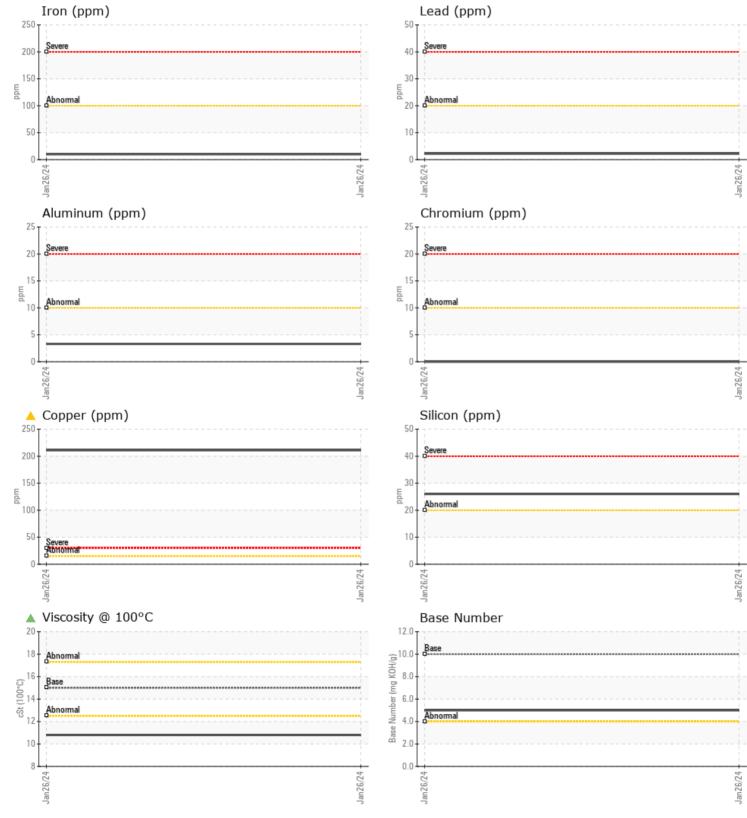
Contact/Location: Robert LaPlante - VOLVO0096

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Report Id: VOLVO0096 [WUSCAR] 06075535 (Generated: 02/02/2024 10:10:00) Rev: 1

Contact/Location: Robert LaPlante - VOLVO0096