CONSTRUCTION EQUIPMENT VOLVO A30G 753194 - DIESEL ENGINE SWA396709



Sample No: VCP434690 **Oil Type:**

VOLVO

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

SWA396709

SAMPLE INFORMATION VCP434690 Sample Number VCP420244 Sample Date 31 Aug 2023 21 Apr 2023 Machine Hours 1140 662 Oil Hours 662 0 Changed Oil Changed Changed ABNORMAL Sample Status ABNORMAL **OIL CONDITION** Visc @ 100°C cSt **12.3 1**0.5 Base Number (BN) mg KOH/g 9.2 5.7 Oxidation (PA) 78 59 % CONTAMINATION % 0.3 0.4 Soot % Nitration (PA) % 63 93 Sulfation (PA) % 63 59 % NEG NEG Glycol Fuel % <1.0 0.4 Silicon A 38

Sodium Potassium 1

ppm

ppm

ppm

8

2

<1

| WEAR I | METALS | | | |
|------------|--------|------------|-------------|------|
| Iron | ppm | 11 | 33 | |
| Copper | ppm | <u> </u> | <u> </u> | |
| Lead | ppm | 0 | 1 | |
| Tin | ppm | <1 | 4 | |
| Aluminum | ppm | <1 | < 1 | |
| Chromium | ppm | <1 | 1 | |
| Molybdenum | ppm | 45 | 90 | |
| Nickel | ppm | | 3 | |
| Titanium | ppm | 1 | <1 | |
| Silver | ppm | <1 | <1 | |
| Manganese | ppm | 1 | 5 | |
| Vanadium | ppm | 0 | <1 | |

4

5

| ADDITIVES | | | | | | | |
|------------|-----|-------------|------|--|--|--|--|
| Calcium | ppm | 1629 | 2192 | | | | |
| Magnesium | ppm | 475 | 18 | | | | |
| Zinc | ppm | 1062 | 1217 | | | | |
| Phosphorus | ppm | 886 | 1000 | | | | |
| Barium | ppm | 2 | 0 | | | | |
| Boron | ppm | 31 | 14 | | | | |
| | | | | | | | |



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. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still 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. 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: 10633974 Signed: Sean Felton **Report Date:** 08 Sep 2023

Report Id: VOLVO0096 [WUSCAR] 05943362 (Generated: 09/08/2023 12:49:14) Rev: 1

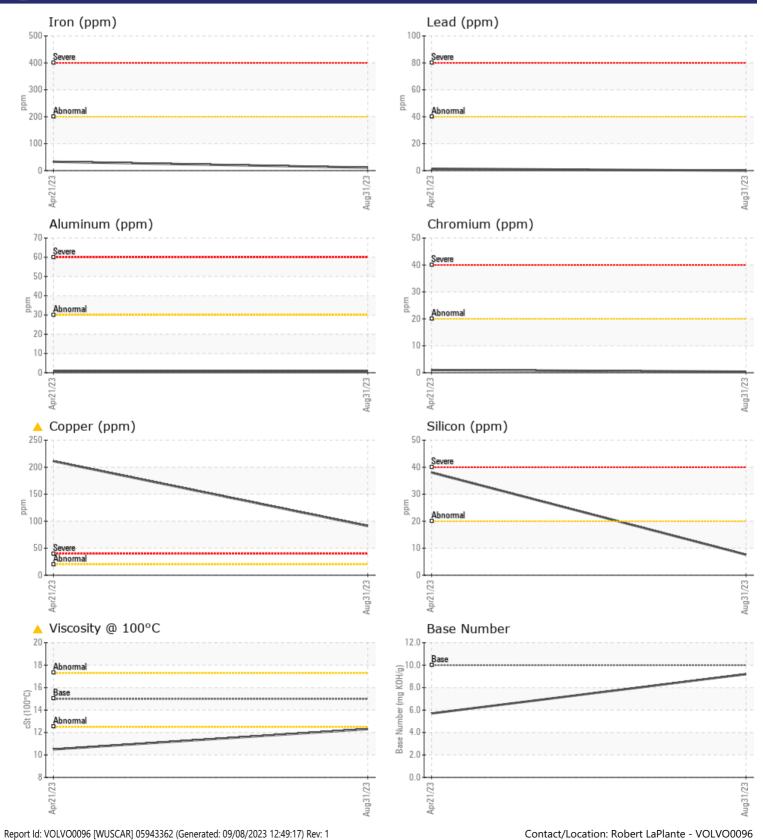
Contact/Location: Robert LaPlante - VOLVO0096

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



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