CONSTRUCTION EQUIPMENT <u>S678 OLDCASTLE</u> VOLVO L 1 1 OH 632328 - DIESEL ENGINE

Sample No: VCP424195 Oil Type: VOLVO ULTR/

VOLVO

pe: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3p: S678 OLDCASTLE

Job No:

SAMPLE INFORMATION VCP424195 Sample Number Sample Date 12 Jul 2023 Machine Hours 535 Oil Hours 0 Oil Changed Changed SEVERE Sample Status **OIL CONDITION** Visc @ 100°C cSt 12.5 Base Number (BN) mg KOH/g 10.1 Oxidation (PA) 75 % CONTAMINATION % 0.2 Soot %

| Nitration (PA) | % | 61 | | |
|----------------|-----|-----------|------|--|
| Sulfation (PA) | % | 59 | | |
| Glycol | % | NEG | | |
| Fuel | % | <1.0 | | |
| Silicon | ppm | 16 | | |
| Sodium | ppm | 3 | | |
| Potassium | ppm | 2 | | |

| WEAR N | METALS | | | |
|------------|--------|------------|------|--|
| Iron | ppm | 31 | | |
| Copper | ppm | 10 | | |
| Lead | ppm | 2 | | |
| Tin | ppm | 2 | | |
| Aluminum | ppm | 🛑 133 | | |
| Chromium | ppm | 6 | | |
| Molybdenum | ppm | 38 | | |
| Nickel | ppm | <1 | | |
| Titanium | ppm | <1 | | |
| Silver | ppm | <1 | | |
| Manganese | ppm | 3 | | |
| Vanadium | ppm | 0 | | |

Variaulu

| ADDITIVES | | | | | | | |
|------------|-----|-------------|--|--|--|--|--|
| Calcium | ppm | 1413 | | | | | |
| Magnesium | ppm | 594 | | | | | |
| Zinc | ppm | 1092 | | | | | |
| Phosphorus | ppm | 907 | | | | | |
| Barium | ppm | 4 | | | | | |
| Boron | ppm | 53 | | | | | |
| | | | | | | | |



VCES- VOLVO CONSTRUCTION EQUIPMENT

8594 FRUITRIDGE ROAD SACRAMENTO, CA US 95826 Contact: RAY KRANZUSCH ray.kranzusch@vcesvolvo.com T: F:

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.Aluminum level high for break in. All other metal levels are typical for a new component breaking in. 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 acceptable for the time in service.

 Depot:
 VOLVO4485

 Unique No:
 10578434

 Signed:
 Don Baldridge

 Report Date:
 02 Aug 2023

Report Id: VOLVO4485 [WUSCAR] 05911782 (Generated: 08/03/2023 19:57:50) Rev: 1

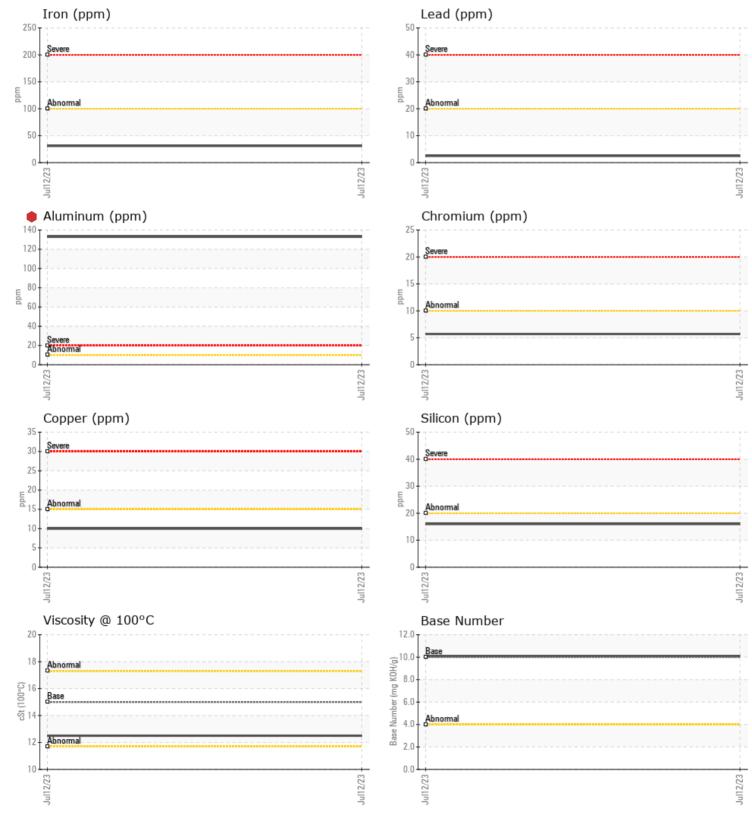
Contact/Location: RAY KRANZUSCH - VOLVO4485

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Contact/Location: RAY KRANZUSCH - VOLVO4485