



CONSTRUCTION EQUIPMENT

SVC052652 FAHL&WRIGH VOLVO EC380EL 3 15686 - DIESEL ENGINE



Sample No: VCP416421
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SVC052652 FAHL&WRIGH



SAMPLE INFORMATION

Sample Number	VCP416421	---	---	---
Sample Date	29 Jan 2024	---	---	---
Machine Hours	600	---	---	---
Oil Hours	600	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

TYLER EQUIPMENT CORPORATION

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.8	---	---	---
Base Number (BN)	mg KOH/g	■ 5.4	---	---	---
Oxidation (PA)	%	68	---	---	---

Diagnosis

The oil 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.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	81	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.6	---	---	---
Silicon	ppm	■ 20	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 6	---	---	---



WEAR METALS

Iron	ppm	■ 13	---	---	---
Copper	ppm	▲ 291	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 81	---	---	---
Nickel	ppm	■ 1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 2125	---	---	---
Magnesium	ppm	97	---	---	---
Zinc	ppm	■ 1137	---	---	---
Phosphorus	ppm	■ 949	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 34	---	---	---

Depot: VOLVO0005
Unique No: 10869222
Signed: Jonathan Hester
Report Date: 08 Feb 2024



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GRAPHS

