



CONSTRUCTION EQUIPMENT

580154 RENTAL VOLVO EC350 314509 - DIESEL ENGINE



Sample No: VCP412652
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 580154 RENTAL



SAMPLE INFORMATION

Sample Number	VCP412652	---	---	---
Sample Date	07 Aug 2023	---	---	---
Machine Hours	608	---	---	---
Oil Hours	608	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT COMPANY - METRO WEST
56195 PONTIAC TRAIL
NEW HUDSON, MI
US 48165
Contact: PAUL ELZERMAN
paul.elzerman@altaequipment.com
T: (248)356-5200
F: (248)356-2029



OIL CONDITION

Visc @ 100°C	cSt	▲ 10.3	---	---	---
Base Number (BN)	mg KOH/g	■ 5.1	---	---	---
Oxidation (PA)	%	70	---	---	---

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.



CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	88	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.7	---	---	---
Silicon	ppm	■ 30	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 4	---	---	---



WEAR METALS

Iron	ppm	■ 14	---	---	---
Copper	ppm	▲ 202	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 83	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	3	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2228	---	---	---
Magnesium	ppm	53	---	---	---
Zinc	ppm	■ 1229	---	---	---
Phosphorus	ppm	■ 972	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 23	---	---	---

Depot: VOLVO2990
Unique No: 10604673
Signed: Jonathan Hester
Report Date: 17 Aug 2023



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VOLVO GRAPHS

