



CONSTRUCTION EQUIPMENT

X47090 OMEGA FOUND VOLVO EC350EL 314507 - DIESEL ENGINE



Sample No: VCP402517
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: X47090 OMEGA FOUND



SAMPLE INFORMATION

Sample Number	VCP402517	---	---	---
Sample Date	23 Jun 2023	---	---	---
Machine Hours	512	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.3	---	---	---
Base Number (BN)	mg KOH/g	■ 5.7	---	---	---
Oxidation (PA)	%	67	---	---	---



CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	82	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.6	---	---	---
Silicon	ppm	■ 33	---	---	---
Sodium	ppm	■ 6	---	---	---
Potassium	ppm	■ 6	---	---	---



WEAR METALS

Iron	ppm	■ 16	---	---	---
Copper	ppm	▲ 195	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 86	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	■ <1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 4	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2079	---	---	---
Magnesium	ppm	■ 36	---	---	---
Zinc	ppm	■ 1171	---	---	---
Phosphorus	ppm	■ 955	---	---	---
Barium	ppm	■ 1	---	---	---
Boron	ppm	■ 32	---	---	---

Diagnosis

No corrective action is recommended at this time. 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: VOLVO6244
Unique No: 10535824
Signed: Don Baldrige
Report Date: 30 Jun 2023



CONSTRUCTION EQUIPMENT



GRAPHS

