



# CONSTRUCTION EQUIPMENT

## X48269 VOLVO EC350EL 314338 - DIESEL ENGINE



**Sample No:** VCP430469  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** X48269



### SAMPLE INFORMATION

Sample Number	VCP430469	VCP379157	---	---
Sample Date	14 Feb 2024	06 Jul 2022	---	---
Machine Hours	2027	281	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	▲ 11.5	10.4	---	---
Base Number (BN)	mg KOH/g	▲ 3.7	■ 7.9	---	---
Oxidation (PA)	%	102	68	---	---

### Diagnosis

The oil is near the end of its useful service life, recommend schedule an oil change. 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). There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN level is low. Confirm oil type.



### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	100	82	---	---
Sulfation (PA)	%	73	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.7	---	---
Silicon	ppm	■ 18	■ 19	---	---
Sodium	ppm	■ 4	■ 1	---	---
Potassium	ppm	■ 2	■ 2	---	---



### WEAR METALS

Iron	ppm	■ 24	■ 9	---	---
Copper	ppm	▲ 369	▲ 246	---	---
Lead	ppm	■ 5	■ <1	---	---
Tin	ppm	■ 3	■ 2	---	---
Aluminum	ppm	■ 2	■ 2	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 57	■ 62	---	---
Nickel	ppm	■ <1	■ 0	---	---
Titanium	ppm	■ 0	0	---	---
Silver	ppm	■ 0	<1	---	---
Manganese	ppm	■ 3	3	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	■ 1833	■ 1619	---	---
Magnesium	ppm	■ 98	■ 35	---	---
Zinc	ppm	■ 1065	■ 910	---	---
Phosphorus	ppm	■ 914	728	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 12	■ 41	---	---

**Depot:** VOLVO6244  
**Unique No:** 10886745  
**Signed:** Jonathan Hester  
**Report Date:** 22 Feb 2024



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## GRAPHS

