



# CONSTRUCTION EQUIPMENT

## 3040 VOLVO EC220EL 314928 - DIESEL ENGINE



**Sample No:** VCP434347  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 3040



### SAMPLE INFORMATION

Sample Number	VCP434347	VCP406172	---	---
Sample Date	18 Jun 2024	25 Apr 2023	---	---
Machine Hours	1515	510	---	---
Oil Hours	0	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

**LEONARDS CONTRACTING**  
 30850 STEPHENSON HWY  
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 US 48071  
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### OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 13.7	---	---
Base Number (BN)	mg KOH/g	█ 10.1	█ 6.3	---	---
Oxidation (PA)	%	89	53	---	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. 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 suitable for further service.

### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	73	65	---	---
Sulfation (PA)	%	63	49	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 11	█ 15	---	---
Sodium	ppm	█ 2	█ 4	---	---
Potassium	ppm	█ 2	█ 4	---	---

### WEAR METALS

Iron	ppm	█ 23	█ 47	---	---
Copper	ppm	█ 1	█ 7	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 2	█ 3	---	---
Chromium	ppm	█ <1	█ 3	---	---
Molybdenum	ppm	█ 42	█ 8	---	---
Nickel	ppm	█ <1	█ 4	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ 4	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	█ 1808	█ 2269	---	---
Magnesium	ppm	█ 528	█ 133	---	---
Zinc	ppm	█ 1248	█ 1092	---	---
Phosphorus	ppm	█ 944	█ 869	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 36	█ 9	---	---

**Depot:** LEOMAD  
**Unique No:** 11098975  
**Signed:** Wes Davis  
**Report Date:** 27 Jun 2024



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## GRAPHS

