



# CONSTRUCTION EQUIPMENT

621613 STONE CO VOLVO EC350E 314488 - DIESEL ENGINE



**Sample No:** VCP435961  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 621613 STONE CO



**ALTA EQUIPMENT COMPANY - METRO WEST**  
 56195 PONTIAC TRAIL  
 NEW HUDSON, MI  
 US 48165  
 Contact: PAUL CONZ  
 paul.conz@altg.com  
 T: (313)348-8861  
 F: (248)356-2029



## SAMPLE INFORMATION

Sample Number	<b>VCP435961</b>	VCP412460	VCP414127	---
Sample Date	<b>10 Nov 2023</b>	28 Aug 2023	15 Jun 2023	---
Machine Hours	<b>1486</b>	1004	492	---
Oil Hours	<b>500</b>	500	492	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>ATTENTION</b>	ATTENTION	ABNORMAL	---



## OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.5</b>	▲ 11.7	▲ 10.7	---
Base Number (BN)	mg KOH/g	<b>■ 7.3</b>	■ 6.1	■ 5.8	---
Oxidation (PA)	%	<b>61</b>	61	72	---



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>■ 0.1</b>	■ 0.1	■ 0.1	---
Nitration (PA)	%	<b>65</b>	66	76	---
Sulfation (PA)	%	<b>55</b>	54	57	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	■ 0.8	---
Silicon	ppm	<b>■ 4</b>	■ 8	■ 24	---
Sodium	ppm	<b>■ 1</b>	■ 3	■ 3	---
Potassium	ppm	<b>■ &lt;1</b>	■ <1	■ 4	---



## WEAR METALS

Iron	ppm	<b>■ 2</b>	■ 7	■ 9	---
Copper	ppm	<b>■ 43</b>	■ 207	▲ 444	---
Lead	ppm	<b>■ &lt;1</b>	■ 0	■ 4	---
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ 0	---
Aluminum	ppm	<b>■ &lt;1</b>	■ <1	■ 10	---
Chromium	ppm	<b>■ 0</b>	■ <1	■ 0	---
Molybdenum	ppm	<b>■ 57</b>	■ 65	■ 85	---
Nickel	ppm	<b>■ 0</b>	■ 0	■ 0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>■ 0</b>	■ 0	■ 0	---
Manganese	ppm	<b>■ &lt;1</b>	■ <1	■ 1	---
Vanadium	ppm	<b>0</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>■ 980</b>	■ 1209	■ 2109	---
Magnesium	ppm	<b>■ 903</b>	■ 915	■ 200	---
Zinc	ppm	<b>■ 1207</b>	■ 1288	■ 1168	---
Phosphorus	ppm	<b>■ 976</b>	■ 1018	■ 931	---
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	---
Boron	ppm	<b>■ 1</b>	■ 4	■ 84	---

## 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO2990  
**Unique No:** 10764780  
**Signed:** Angela Borella  
**Report Date:** 01 Dec 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

