



# CONSTRUCTION EQUIPMENT

## S765 ACRAMIN ELDER C VOLVO L110H 632181 - DIESEL ENGINE



**Sample No:** VCP422663  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** S765 ACRAMIN ELDER C



### SAMPLE INFORMATION

Sample Number	<b>VCP422663</b>	VCP426739	VCP375436	---
Sample Date	<b>22 Sep 2023</b>	30 May 2023	05 Oct 2022	---
Machine Hours	<b>5130</b>	4095	2597	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Not Changd	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---



### VCES- VOLVO CONSTRUCTION EQUIPMENT

8594 FRUITRIDGE ROAD  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.7</b>	13.9	13.9	---
Base Number (BN)	mg KOH/g	<b>8.6</b>	9.3	11.6	---
Oxidation (PA)	%	<b>98</b>	84	96	---



### CONTAMINATION

Soot %	%	<b>0.7</b>	0.6	0.5	---
Nitration (PA)	%	<b>88</b>	81	76	---
Sulfation (PA)	%	<b>66</b>	66	71	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>9</b>	8	9	---
Sodium	ppm	<b>3</b>	1	2	---
Potassium	ppm	<b>0</b>	1	<1	---



### WEAR METALS

Iron	ppm	<b>19</b>	15	17	---
Copper	ppm	<b>2</b>	2	6	---
Lead	ppm	<b>3</b>	2	1	---
Tin	ppm	<b>1</b>	1	2	---
Aluminum	ppm	<b>5</b>	6	7	---
Chromium	ppm	<b>1</b>	<1	1	---
Molybdenum	ppm	<b>48</b>	71	41	---
Nickel	ppm	<b>&lt;1</b>	0	<1	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>&lt;1</b>	0	<1	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1759</b>	1601	1840	---
Magnesium	ppm	<b>563</b>	548	539	---
Zinc	ppm	<b>1167</b>	1051	1396	---
Phosphorus	ppm	<b>938</b>	867	1150	---
Barium	ppm	<b>0</b>	2	0	---
Boron	ppm	<b>30</b>	95	29	---

### 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.

**Depot:** VOLVO4485  
**Unique No:** 10669356  
**Signed:** Jonathan Hester  
**Report Date:** 28 Sep 2023



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## GRAPHS

