



# CONSTRUCTION EQUIPMENT

## SWO-071194 SCHNITZER VOLVO L110H 632402 - DIESEL ENGINE



**Sample No:** VCP450894  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-071194 SCHNITZER



### SAMPLE INFORMATION

Sample Number	<b>VCP450894</b>	VCP429877	VCP447557	VCP402531
Sample Date	<b>26 Apr 2024</b>	22 Jan 2024	11 Dec 2023	20 Apr 2023
Machine Hours	<b>3465</b>	2886	2651	1358
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	N/A	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### COWIN EQUIPMENT COMPANY

2238 PINSON VALLEY PARKWAY  
 BIRMINGHAM, AL  
 US 35217  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.7	13.6	13.1
Base Number (BN)	mg KOH/g	<b>10.3</b>	9.1	9.9	10.3
Oxidation (PA)	%	<b>78</b>	76	74	80



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.6	0.5	0.1
Nitration (PA)	%	<b>47</b>	68	59	50
Sulfation (PA)	%	<b>60</b>	60	59	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	6	6	4
Sodium	ppm	<b>2</b>	3	1	<1
Potassium	ppm	<b>2</b>	<1	<1	0



### WEAR METALS

Iron	ppm	<b>6</b>	33	26	6
Copper	ppm	<b>2</b>	12	6	6
Lead	ppm	<b>&lt;1</b>	2	2	0
Tin	ppm	<b>&lt;1</b>	2	<1	0
Aluminum	ppm	<b>3</b>	4	3	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>40</b>	43	45	37
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1569</b>	1317	1479	1538
Magnesium	ppm	<b>484</b>	575	545	460
Zinc	ppm	<b>1090</b>	1035	1157	1038
Phosphorus	ppm	<b>934</b>	893	939	817
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>53</b>	25	27	52

### 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:** VOLVO8528  
**Unique No:** 11004804  
**Signed:** Wes Davis  
**Report Date:** 01 May 2024



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## GRAPHS

