



# CONSTRUCTION EQUIPMENT

SWO-068033 SCHNITZER VOLVO L110H 632402 - DIESEL ENGINE



**Sample No:** VCP447557  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-068033 SCHNITZER



## SAMPLE INFORMATION

Sample Number	VCP447557	VCP402531	---	---
Sample Date	11 Dec 2023	20 Apr 2023	---	---
Machine Hours	2651	1358	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

### COWIN EQUIPMENT COMPANY

2238 PINSON VALLEY PARKWAY  
 BIRMINGHAM, AL  
 US 35217  
 Contact: BRANTLY CLAY  
 bclay@cowin.com  
 T:  
 F: (205)856-2106



## OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	█ 13.1	---	---
Base Number (BN)	mg KOH/g	█ 9.9	█ 10.3	---	---
Oxidation (PA)	%	74	80	---	---

### 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 %	%	█ 0.5	█ 0.1	---	---
Nitration (PA)	%	59	50	---	---
Sulfation (PA)	%	59	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 4	---	---
Sodium	ppm	█ 1	█ <1	---	---
Potassium	ppm	█ <1	█ 0	---	---



## WEAR METALS

Iron	ppm	█ 26	█ 6	---	---
Copper	ppm	█ 6	█ 6	---	---
Lead	ppm	█ 2	█ 0	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 3	█ 2	---	---
Chromium	ppm	█ <1	█ 0	---	---
Molybdenum	ppm	█ 45	█ 37	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	<1	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



## ADDITIVES

Calcium	ppm	█ 1479	█ 1538	---	---
Magnesium	ppm	█ 545	█ 460	---	---
Zinc	ppm	█ 1157	█ 1038	---	---
Phosphorus	ppm	█ 939	█ 817	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 27	█ 52	---	---

**Depot:** VOLVO8528  
**Unique No:** 10789535  
**Signed:** Wes Davis  
**Report Date:** 15 Dec 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

