



# CONSTRUCTION EQUIPMENT

SW-34507-3 ALDER VOLVO L20B 1701154 - DIESEL ENGINE



**Sample No:** VCP445962  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SW-34507-3 ALDER



## SAMPLE INFORMATION

Sample Number	VCP445962	VCP388684	---	---
Sample Date	17 May 2024	10 Oct 2022	---	---
Machine Hours	3164	3003	---	---
Oil Hours	161	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

### ARNOLD MACHINERY COMPANY

2975 WEST 2100 SOUTH  
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## OIL CONDITION

Visc @ 100°C	cSt	█ 14.0	█ 13.6	---	---
Base Number (BN)	mg KOH/g	█ 8.1	█ 11.6	---	---
Oxidation (PA)	%	45	80	---	---

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Light concentration of visible metal present. 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	█ 0.2	---	---
Nitration (PA)	%	45	58	---	---
Sulfation (PA)	%	45	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 8	---	---
Sodium	ppm	█ <1	█ <1	---	---
Potassium	ppm	█ 2	█ 2	---	---



## WEAR METALS

Iron	ppm	█ 4	█ 12	---	---
Copper	ppm	█ <1	█ 2	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ <1	█ 2	---	---
Aluminum	ppm	█ 3	█ 4	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 20	█ 51	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	2	---	---
Silver	ppm	█ <1	0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



## ADDITIVES

Calcium	ppm	█ 1903	█ 1598	---	---
Magnesium	ppm	█ 261	█ 527	---	---
Zinc	ppm	█ 1040	█ 1121	---	---
Phosphorus	ppm	█ 845	█ 927	---	---
Barium	ppm	█ 0	█ 2	---	---
Boron	ppm	█ 25	█ 88	---	---

**Depot:** VOLVO8770  
**Unique No:** 11046907  
**Signed:** Sean Felton  
**Report Date:** 29 May 2024



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## GRAPHS

