



# CONSTRUCTION EQUIPMENT

606076 IAA VOLVO L90H 626917 - DIESEL ENGINE



**Sample No:** VCP431345  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 606076 IAA



## SAMPLE INFORMATION

Sample Number	VCP431345	VCP399557	---	---
Sample Date	19 Sep 2023	19 Dec 2022	---	---
Machine Hours	6495	2090	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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## OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	█ 12.8	---	---
Base Number (BN)	mg KOH/g	█ 10.3	█ 10.3	---	---
Oxidation (PA)	%	77	81	---	---

## Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



## CONTAMINATION

Soot %	%	█ 0.7	█ 0.3	---	---
Nitration (PA)	%	63	59	---	---
Sulfation (PA)	%	61	61	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	▲ 22	█ 5	---	---
Sodium	ppm	█ 4	█ 2	---	---
Potassium	ppm	█ <1	█ 0	---	---



## WEAR METALS

Iron	ppm	█ 41	█ 11	---	---
Copper	ppm	█ 8	█ <1	---	---
Lead	ppm	█ 1	█ <1	---	---
Tin	ppm	█ 5	█ <1	---	---
Aluminum	ppm	▲ 20	█ 2	---	---
Chromium	ppm	█ 4	█ <1	---	---
Molybdenum	ppm	█ 40	█ 46	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 5	█ <1	---	---
Vanadium	ppm	0	0	---	---



## ADDITIVES

Calcium	ppm	█ 1670	█ 1659	---	---
Magnesium	ppm	█ 616	█ 517	---	---
Zinc	ppm	█ 1200	█ 1143	---	---
Phosphorus	ppm	█ 989	█ 921	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 36	█ 35	---	---

**Depot:** VOLVO2990  
**Unique No:** 10668498  
**Signed:** Don Baldrige  
**Report Date:** 28 Sep 2023



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## GRAPHS

