



# CONSTRUCTION EQUIPMENT

377609 TITAN AMERICA VOLVO L90H 626197 - DIESEL ENGINE



**Sample No:** VCP433367  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 377609 TITAN AMERICA



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## SAMPLE INFORMATION

Sample Number	VCP433367	VCP410369	---	---
Sample Date	05 Oct 2023	13 Apr 2023	---	---
Machine Hours	4129	2813	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

## OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	█ 13.0	---	---
Base Number (BN)	mg KOH/g	█ 8.3	█ 9.0	---	---
Oxidation (PA)	%	76	78	---	---

## CONTAMINATION

Soot %	%	█ 0.2	█ 0.3	---	---
Nitration (PA)	%	58	61	---	---
Sulfation (PA)	%	57	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 5	█ 6	---	---
Sodium	ppm	█ 1	█ 3	---	---
Potassium	ppm	█ 1	█ 0	---	---

## WEAR METALS

Iron	ppm	█ 8	█ 13	---	---
Copper	ppm	█ <1	█ <1	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 3	█ 3	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 46	█ 47	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	<1	0	---	---

## ADDITIVES

Calcium	ppm	█ 1590	█ 1696	---	---
Magnesium	ppm	█ 484	█ 530	---	---
Zinc	ppm	█ 1087	█ 1147	---	---
Phosphorus	ppm	█ 919	█ 933	---	---
Barium	ppm	█ 7	█ 0	---	---
Boron	ppm	█ 29	█ 35	---	---

## 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:** VOLVO0093  
**Unique No:** 10737799  
**Signed:** Wes Davis  
**Report Date:** 10 Nov 2023



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## GRAPHS

