



# CONSTRUCTION EQUIPMENT

19772 LANE-BLYTHE VOLVO A45GFS 35252 - DIESEL ENGINE



**Sample No:** VCP413353  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 19772 LANE-BLYTHE



## SAMPLE INFORMATION

Sample Number	<b>VCP413353</b>	VCP421946	VCP387527	---
Sample Date	<b>05 Oct 2023</b>	09 Jun 2023	25 Aug 2022	---
Machine Hours	<b>6445</b>	5446	4182	---
Oil Hours	<b>999</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	13.3	12.8	---
Base Number (BN)	mg KOH/g	<b>6.6</b>	6.5	4.6	---
Oxidation (PA)	%	<b>66</b>	65	65	---

## 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 acceptable for the time in service.



## CONTAMINATION

Soot %	%	<b>0.6</b>	0.5	0.6	---
Nitration (PA)	%	<b>78</b>	80	84	---
Sulfation (PA)	%	<b>58</b>	63	74	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>4</b>	4	5	---
Sodium	ppm	<b>5</b>	4	3	---
Potassium	ppm	<b>1</b>	0	2	---



## WEAR METALS

Iron	ppm	<b>12</b>	12	16	---
Copper	ppm	<b>2</b>	4	7	---
Lead	ppm	<b>2</b>	2	2	---
Tin	ppm	<b>&lt;1</b>	<1	1	---
Aluminum	ppm	<b>6</b>	3	4	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>57</b>	36	9	---
Nickel	ppm	<b>&lt;1</b>	<1	2	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	<1	<1	---



## ADDITIVES

Calcium	ppm	<b>1177</b>	1983	2330	---
Magnesium	ppm	<b>954</b>	508	85	---
Zinc	ppm	<b>1324</b>	1231	1166	---
Phosphorus	ppm	<b>1051</b>	976	928	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>3</b>	5	6	---

**Depot:** VOLVO8769  
**Unique No:** 10701646  
**Signed:** Don Baldrige  
**Report Date:** 21 Oct 2023



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## GRAPHS

