



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 353 131 - DIESEL ENGINE



**Sample No:** VCP437318  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP437318</b>	VCP395878	VCP423310	VCP393649
Sample Date	<b>16 Apr 2024</b>	28 Sep 2023	23 May 2023	27 Dec 2022
Machine Hours	<b>3526</b>	2371	1667	998
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	N/A
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	12.9	12.9	12.5
Base Number (BN)	mg KOH/g	<b>7.5</b>	8.3	9.2	9.5
Oxidation (PA)	%	<b>72</b>	83	88	84

### 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	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.5</b>	0.6	0.5	0.3
Nitration (PA)	%	<b>82</b>	77	77	73
Sulfation (PA)	%	<b>59</b>	63	68	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	5	9	7
Sodium	ppm	<b>2</b>	5	3	2
Potassium	ppm	<b>2</b>	3	0	0



### WEAR METALS

Iron	ppm	<b>10</b>	11	18	6
Copper	ppm	<b>3</b>	25	75	180
Lead	ppm	<b>&lt;1</b>	2	<1	3
Tin	ppm	<b>1</b>	1	1	2
Aluminum	ppm	<b>3</b>	1	1	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>57</b>	38	50	60
Nickel	ppm	<b>2</b>	3	▲ 9	5
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1299</b>	1294	1803	1736
Magnesium	ppm	<b>748</b>	440	538	472
Zinc	ppm	<b>1215</b>	882	1137	1097
Phosphorus	ppm	<b>1056</b>	748	925	876
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>7</b>	13	26	33

**Depot:** VOLVO0090  
**Unique No:** 10989468  
**Signed:** Wes Davis  
**Report Date:** 22 Apr 2024



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## GRAPHS

