



# CONSTRUCTION EQUIPMENT

## FLAVA VOLVO A45G 342089 - DIESEL ENGINE



**Sample No:** VCP435625  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** FLAVA



### SAMPLE INFORMATION

Sample Number	<b>VCP435625</b>	VCP395280	VCP300385	VCP278424
Sample Date	<b>01 Apr 2024</b>	09 Jan 2023	20 Feb 2021	28 Jul 2020
Machine Hours	<b>8617</b>	7364	5056	4260
Oil Hours	<b>0</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	12.6	12.6	12.7
Base Number (BN)	mg KOH/g	<b>8.9</b>	9.5	---	---
Oxidation (PA)	%	<b>61</b>	60	84	77

### 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

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.3	0.3	0.4
Nitration (PA)	%	<b>65</b>	62	55	68
Sulfation (PA)	%	<b>53</b>	54	66	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	3	7	6
Sodium	ppm	<b>4</b>	2	3	3
Potassium	ppm	<b>2</b>	0	0	0



### WEAR METALS

Iron	ppm	<b>5</b>	8	6	8
Copper	ppm	<b>9</b>	27	<1	<1
Lead	ppm	<b>&lt;1</b>	2	0	<1
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>3</b>	3	2	1
Chromium	ppm	<b>0</b>	<1	<1	0
Molybdenum	ppm	<b>59</b>	60	40	40
Nickel	ppm	<b>&lt;1</b>	<1	0	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1231</b>	1222	1795	1623
Magnesium	ppm	<b>842</b>	908	524	565
Zinc	ppm	<b>1170</b>	1237	1080	1092
Phosphorus	ppm	<b>1016</b>	1003	938	894
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>16</b>	0	44	42

**Depot:** VOLVO0093  
**Unique No:** 11050444  
**Signed:** Sean Felton  
**Report Date:** 30 May 2024



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## GRAPHS

