



# CONSTRUCTION EQUIPMENT

## 588 VOLVO A45GFS 353608 - DIESEL ENGINE



**Sample No:** VCP427199  
**Oil Type:** MOBIL 15W40  
**Job No:** 588



### SAMPLE INFORMATION

Sample Number	<b>VCP427199</b>	VCP413014	---	---
Sample Date	<b>05 Dec 2023</b>	17 Aug 2023	---	---
Machine Hours	<b>1080</b>	483	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	ATTENTION	---	---

**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
 12345 MAPLEVIEW STREET  
 LAKESIDE, CA  
 US 92040  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.5</b>	▲ 10.9	---	---
Base Number (BN)	mg KOH/g	<b>8.7</b>	■ 5.8	---	---
Oxidation (PA)	%	<b>84</b>	59	---	---

### 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	---	---
Soot %	%	<b>0.4</b>	■ 0.4	---	---
Nitration (PA)	%	<b>68</b>	79	---	---
Sulfation (PA)	%	<b>65</b>	53	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	■ 0.7	---	---
Silicon	ppm	<b>10</b>	■ 28	---	---
Sodium	ppm	<b>4</b>	■ 4	---	---
Potassium	ppm	<b>0</b>	■ 1	---	---



### WEAR METALS

Iron	ppm	<b>14</b>	■ 24	---	---
Copper	ppm	<b>78</b>	■ 315	---	---
Lead	ppm	<b>0</b>	■ 0	---	---
Tin	ppm	<b>2</b>	■ 5	---	---
Aluminum	ppm	<b>2</b>	■ 5	---	---
Chromium	ppm	<b>&lt;1</b>	■ 1	---	---
Molybdenum	ppm	<b>44</b>	■ 87	---	---
Nickel	ppm	<b>3</b>	■ 4	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	■ 0	---	---
Manganese	ppm	<b>1</b>	■ 2	---	---
Vanadium	ppm	<b>0</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>1787</b>	■ 2370	---	---
Magnesium	ppm	<b>468</b>	■ 58	---	---
Zinc	ppm	<b>1195</b>	■ 1264	---	---
Phosphorus	ppm	<b>969</b>	■ 1059	---	---
Barium	ppm	<b>0</b>	■ 0	---	---
Boron	ppm	<b>32</b>	■ 47	---	---

**Depot:** VOLVO4488  
**Unique No:** 10781932  
**Signed:** Wes Davis  
**Report Date:** 13 Dec 2023



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## GRAPHS

