



# CONSTRUCTION EQUIPMENT

## 19096 VOLVO A45G 353355 - DIESEL ENGINE



**Sample No:** VCP426887  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 19096



### SAMPLE INFORMATION

Sample Number	VCP426887	VCP425604	---	---
Sample Date	07 Jul 2023	03 Apr 2023	---	---
Machine Hours	946	558	---	---
Oil Hours	388	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	10.6	---	---
Base Number (BN)	mg KOH/g	█ 8.7	█ 6.0	---	---
Oxidation (PA)	%	57	58	---	---

### 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 %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	55	80	---	---
Sulfation (PA)	%	53	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 1.0	---	---
Silicon	ppm	█ 7	█ 28	---	---
Sodium	ppm	█ 0	█ 3	---	---
Potassium	ppm	█ 1	█ 1	---	---

### WEAR METALS

Iron	ppm	█ 8	█ 22	---	---
Copper	ppm	█ 58	█ 280	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 1	█ 4	---	---
Aluminum	ppm	█ 1	█ 3	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	█ 66	█ 90	---	---
Nickel	ppm	█ 2	█ 3	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	2	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	█ 1208	█ 2315	---	---
Magnesium	ppm	█ 772	█ 18	---	---
Zinc	ppm	█ 1207	█ 1265	---	---
Phosphorus	ppm	█ 1027	█ 1057	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 9	█ 55	---	---

**Depot:** GAIKNI  
**Unique No:** 10552478  
**Signed:** Don Baldrige  
**Report Date:** 14 Jul 2023



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## GRAPHS

