



# CONSTRUCTION EQUIPMENT

## 219138 ALTA USED VOLVO L180H 4243 - DIESEL ENGINE



**Sample No:** VCP403706  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 219138 ALTA USED



### SAMPLE INFORMATION

Sample Number	VCP403706	---	---	---
Sample Date	30 Mar 2023	---	---	---
Machine Hours	6983	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	MARGINAL	---	---	---

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### OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	---	---	---
Base Number (BN)	mg KOH/g	■ 9.5	---	---	---
Oxidation (PA)	%	■ 56	---	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.



### CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 59	---	---	---
Sulfation (PA)	%	■ 52	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	▲ 2.9	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 1	---	---	---
Potassium	ppm	■ <1	---	---	---



### WEAR METALS

Iron	ppm	■ 9	---	---	---
Copper	ppm	■ 13	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 56	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	■ 0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	■ 0	---	---	---



### ADDITIVES

Calcium	ppm	■ 1100	---	---	---
Magnesium	ppm	■ 941	---	---	---
Zinc	ppm	■ 1209	---	---	---
Phosphorus	ppm	■ 1018	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 5	---	---	---

**Depot:** VOLVO0096  
**Unique No:** 10415996  
**Signed:** Jonathan Hester  
**Report Date:** 13 Apr 2023



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## GRAPHS

