



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 353267 - DIESEL ENGINE



**Sample No:** VCP416000  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP416000</b>	VCP365340	---	---
Sample Date	<b>10 Jul 2023</b>	06 Dec 2022	---	---
Machine Hours	<b>1257</b>	476	---	---
Oil Hours	<b>0</b>	476	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	---	---

**LEE MAR BUILDING & CONSTRUCTION**  
 15685 PINE RIDGE ROAD  
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 US 33908-2626  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 11.8</b>	▲ 10.3	---	---
Base Number (BN)	mg KOH/g	<b>■ 7.8</b>	■ 7.1	---	---
Oxidation (PA)	%	<b>86</b>	64	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The nickel level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



### CONTAMINATION

Soot %	%	<b>■ 0.6</b>	■ 0.5	---	---
Nitration (PA)	%	<b>83</b>	92	---	---
Sulfation (PA)	%	<b>65</b>	60	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	■ 1.6	---	---
Silicon	ppm	<b>■ 10</b>	■ 28	---	---
Sodium	ppm	<b>■ 0</b>	■ 2	---	---
Potassium	ppm	<b>■ 2</b>	■ 3	---	---



### WEAR METALS

Iron	ppm	<b>■ 19</b>	■ 27	---	---
Copper	ppm	<b>■ 130</b>	▲ 372	---	---
Lead	ppm	<b>■ 2</b>	■ 1	---	---
Tin	ppm	<b>■ 4</b>	■ 8	---	---
Aluminum	ppm	<b>■ 3</b>	■ 2	---	---
Chromium	ppm	<b>■ &lt;1</b>	■ <1	---	---
Molybdenum	ppm	<b>■ 53</b>	■ 87	---	---
Nickel	ppm	<b>▲ 17</b>	■ 2	---	---
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>■ 1705</b>	■ 2312	---	---
Magnesium	ppm	<b>■ 437</b>	46	---	---
Zinc	ppm	<b>■ 1047</b>	■ 1209	---	---
Phosphorus	ppm	<b>■ 877</b>	■ 1027	---	---
Barium	ppm	<b>■ 0</b>	■ 0	---	---
Boron	ppm	<b>■ 17</b>	■ 28	---	---

**Depot:** LEEFOR  
**Unique No:** 10551293  
**Signed:** Angela Borella  
**Report Date:** 13 Jul 2023



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## GRAPHS

