



# CONSTRUCTION EQUIPMENT

W05003913 VOLVO DD35B 273430 - DIESEL ENGINE



**Sample No:** VCP418775  
**Oil Type:** MOBIL 15W40  
**Job No:** W05003913



## SAMPLE INFORMATION

Sample Number	VCP418775	VCP310371	---	---
Sample Date	01 Nov 2023	28 Jun 2021	---	---
Machine Hours	1259	474	---	---
Oil Hours	500	474	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

**MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS**  
 8450 QUARRY ROAD  
 MANASSAS, VA  
 US 20110  
 Contact: MIKE MAYHUGH  
 MMAYHUGH@MCCLUNG-LOGAN.COM  
 T: (703)393-7344  
 F: (703)393-7844



## OIL CONDITION

Visc @ 100°C	cSt	▲ 11.2	▲ 11.1	---	---
Base Number (BN)	mg KOH/g	■ 7.6	---	---	---
Oxidation (PA)	%	■ 104	83	---	---

## 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. 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 %	%	■ 0.5	■ 0.3	---	---
Nitration (PA)	%	■ 98	79	---	---
Sulfation (PA)	%	■ 69	64	---	---
Glycol	%	■ NEG	NEG	---	---
Fuel	%	■ <1.0	▲ 3.9	---	---
Silicon	ppm	■ 11	■ 11	---	---
Sodium	ppm	■ 7	■ 6	---	---
Potassium	ppm	■ 0	■ 1	---	---



## WEAR METALS

Iron	ppm	■ 53	■ 33	---	---
Copper	ppm	■ 51	■ 26	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ <1	■ 1	---	---
Aluminum	ppm	■ 8	■ 6	---	---
Chromium	ppm	■ 1	■ 2	---	---
Molybdenum	ppm	■ 57	■ 42	---	---
Nickel	ppm	■ 1	■ <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 1	■ 2	---	---
Vanadium	ppm	<1	0	---	---



## ADDITIVES

Calcium	ppm	■ 1687	■ 1689	---	---
Magnesium	ppm	■ 558	■ 489	---	---
Zinc	ppm	■ 1217	■ 972	---	---
Phosphorus	ppm	■ 899	■ 817	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 51	■ 62	---	---

**Depot:** VOLVO0002  
**Unique No:** 10726079  
**Signed:** Jonathan Hester  
**Report Date:** 06 Nov 2023



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## GRAPHS

