



# CONSTRUCTION EQUIPMENT

W02007841 VOLVO EC300 313052 - DIESEL ENGINE



**Sample No:** VCP315676  
**Oil Type:** MOBIL 15W40  
**Job No:** W02007841



## SAMPLE INFORMATION

Sample Number	<b>VCP315676</b>	VCP418028	VCP397833	VCP375116
Sample Date	<b>15 Dec 2023</b>	05 Jul 2023	01 Feb 2023	31 Aug 2022
Machine Hours	<b>6051</b>	5609	5051	4604
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.3	13.2	13.5
Base Number (BN)	mg KOH/g	<b>8.3</b>	9.0	9.1	9.2
Oxidation (PA)	%	<b>69</b>	72	66	71

## 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	NEG	NEG
Soot %	%	<b>0.2</b>	0.2	0.2	0.3
Nitration (PA)	%	<b>66</b>	73	67	80
Sulfation (PA)	%	<b>63</b>	63	57	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>10</b>	7	7	7
Sodium	ppm	<b>&lt;1</b>	<1	2	1
Potassium	ppm	<b>3</b>	3	4	7



## WEAR METALS

Iron	ppm	<b>8</b>	8	7	10
Copper	ppm	<b>2</b>	2	2	5
Lead	ppm	<b>&lt;1</b>	1	<1	1
Tin	ppm	<b>0</b>	<1	<1	1
Aluminum	ppm	<b>5</b>	5	4	5
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>119</b>	113	69	56
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1478</b>	1637	1576	1299
Magnesium	ppm	<b>673</b>	706	631	851
Zinc	ppm	<b>891</b>	993	1084	1203
Phosphorus	ppm	<b>761</b>	794	882	994
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>278</b>	249	87	9

**Depot:** VOLVO0002  
**Unique No:** 10803555  
**Signed:** Wes Davis  
**Report Date:** 26 Dec 2023

**VOLVO** GRAPHS

