



# CONSTRUCTION EQUIPMENT

10011 DZ LLC VOLVO EC200E 314204 - DIESEL ENGINE



**Sample No:** VCP388520  
**Oil Type:** CHEVRON 15W40  
**Job No:** 10011 DZ LLC



## SAMPLE INFORMATION

Sample Number	<b>VCP388520</b>	VCP387942	VCP318335	VCP361161
Sample Date	<b>05 Dec 2023</b>	19 May 2023	27 Oct 2022	07 Jun 2022
Machine Hours	<b>3182</b>	2539	1979	1515
Oil Hours	<b>0</b>	0	0	0
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>13.3</b>	13.5	13.5	13.6
Base Number (BN)	mg KOH/g	<b>7.5</b>	8.2	10.4	9.8
Oxidation (PA)	%	<b>68</b>	65	73	72

## 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>0.4</b>	0.4	0.7	0.6
Nitration (PA)	%	<b>70</b>	74	76	78
Sulfation (PA)	%	<b>61</b>	62	69	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>14</b>	11	11	10
Sodium	ppm	<b>0</b>	2	<1	2
Potassium	ppm	<b>2</b>	4	7	2



## WEAR METALS

Iron	ppm	<b>30</b>	19	18	26
Copper	ppm	<b>5</b>	3	3	3
Lead	ppm	<b>&lt;1</b>	0	<1	0
Tin	ppm	<b>1</b>	<1	<1	1
Aluminum	ppm	<b>6</b>	3	8	8
Chromium	ppm	<b>2</b>	<1	1	2
Molybdenum	ppm	<b>104</b>	103	130	135
Nickel	ppm	<b>1</b>	<1	0	1
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	<1



## ADDITIVES

Calcium	ppm	<b>1424</b>	1634	1502	1613
Magnesium	ppm	<b>415</b>	488	503	673
Zinc	ppm	<b>1270</b>	1284	991	975
Phosphorus	ppm	<b>1035</b>	990	820	761
Barium	ppm	<b>11</b>	0	0	1
Boron	ppm	<b>316</b>	314	287	267

**Depot:** VOLV00150  
**Unique No:** 10782845  
**Signed:** Wes Davis  
**Report Date:** 14 Dec 2023



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## GRAPHS

