



# CONSTRUCTION EQUIPMENT

## 19292 HEIDELBURG MAT VOLVO L250H 1201 - DIESEL ENGINE



**Sample No:** VCP412152  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 19292 HEIDELBURG MAT



### SAMPLE INFORMATION

Sample Number	<b>VCP412152</b>	VCP0005121	VCP321109	VCP335819
Sample Date	<b>26 Jul 2023</b>	20 Dec 2022	02 Mar 2022	10 Sep 2021
Machine Hours	<b>12676</b>	11176	9971	9174
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	N/A	Changed	Changed
Sample Status	<b>ABNORMAL</b>	ABNORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	13.2	12.8	12.9
Base Number (BN)	mg KOH/g	<b>7.2</b>	10.7	7.9	---
Oxidation (PA)	%	<b>60</b>	66	69	80



### CONTAMINATION

Soot %	%	<b>0.7</b>	0.2	0.3	0.1
Nitration (PA)	%	<b>67</b>	53	68	47
Sulfation (PA)	%	<b>54</b>	57	56	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	32	6	6
Sodium	ppm	<b>1</b>	5	2	3
Potassium	ppm	<b>0</b>	5	0	0



### WEAR METALS

Iron	ppm	<b>12</b>	12	12	3
Copper	ppm	<b>221</b>	2	1	<1
Lead	ppm	<b>0</b>	2	1	0
Tin	ppm	<b>1</b>	3	<1	0
Aluminum	ppm	<b>&lt;1</b>	1	2	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>64</b>	49	52	37
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	2	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1137</b>	1521	1529	1737
Magnesium	ppm	<b>1021</b>	678	696	524
Zinc	ppm	<b>1325</b>	1228	1153	1036
Phosphorus	ppm	<b>1078</b>	981	969	924
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	31	19	49

### 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 copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other 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.

**Depot:** VOLVO8769  
**Unique No:** 10586940  
**Signed:** Don Baldrige  
**Report Date:** 05 Aug 2023



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## GRAPHS

