



# CONSTRUCTION EQUIPMENT

## 25638 VOLVO L350H 1048 - DIESEL ENGINE



**Sample No:** VCP06183957  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 25638



### SAMPLE INFORMATION

Sample Number	<b>VCP06183957</b>	VCP441245	VCP420557	VCP426998
Sample Date	<b>10 Mar 2024</b>	02 Feb 2024	18 Nov 2023	12 Aug 2023
Machine Hours	<b>12003</b>	11269	11100	9846
Oil Hours	<b>0</b>	1000	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	12.9	12.5	▲ 11.3
Base Number (BN)	mg KOH/g	<b>4.8</b>	9.4	8.2	8.7
Oxidation (PA)	%	<b>56</b>	81	84	64

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.3	0.6	0.5
Nitration (PA)	%	<b>66</b>	65	78	73
Sulfation (PA)	%	<b>54</b>	60	61	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	1.4	▲ 4.5
Silicon	ppm	<b>7</b>	3	4	5
Sodium	ppm	<b>2</b>	2	3	2
Potassium	ppm	<b>5</b>	0	7	6

### 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.

### WEAR METALS

Iron	ppm	<b>9</b>	4	10	8
Copper	ppm	<b>3</b>	<1	3	7
Lead	ppm	<b>2</b>	0	3	2
Tin	ppm	<b>1</b>	0	1	<1
Aluminum	ppm	<b>4</b>	2	4	4
Chromium	ppm	<b>1</b>	<1	1	<1
Molybdenum	ppm	<b>59</b>	40	35	26
Nickel	ppm	<b>1</b>	0	1	<1
Titanium	ppm	<b>&lt;1</b>	0	1	2
Silver	ppm	<b>&lt;1</b>	0	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	<1

### ADDITIVES

Calcium	ppm	<b>2285</b>	1641	1639	2171
Magnesium	ppm	<b>669</b>	515	443	366
Zinc	ppm	<b>1508</b>	1086	1085	1138
Phosphorus	ppm	<b>1304</b>	947	827	935
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>38</b>	44	21	26

**Depot:** VOLVO3387  
**Unique No:** 11035283  
**Signed:** Sean Felton  
**Report Date:** 21 May 2024



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## GRAPHS

