



# CONSTRUCTION EQUIPMENT

## 24928 VOLVO L350H 1048 - DIESEL ENGINE



**Sample No:** VCP441245  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 24928



### SAMPLE INFORMATION

Sample Number	<b>VCP441245</b>	VCP420557	VCP426998	VCP401777
Sample Date	<b>02 Feb 2024</b>	18 Nov 2023	12 Aug 2023	29 Apr 2023
Machine Hours	<b>11269</b>	11100	9846	9091
Oil Hours	<b>1000</b>	0	0	1000
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	12.5	▲ 11.3	13.2
Base Number (BN)	mg KOH/g	<b>9.4</b>	8.2	8.7	8.4
Oxidation (PA)	%	<b>81</b>	84	64	80

### 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>0.3</b>	0.6	0.5	0.3
Nitration (PA)	%	<b>65</b>	78	73	66
Sulfation (PA)	%	<b>60</b>	61	58	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	1.4	▲ 4.5	<1.0
Silicon	ppm	<b>3</b>	4	5	3
Sodium	ppm	<b>2</b>	3	2	2
Potassium	ppm	<b>0</b>	7	6	2



### WEAR METALS

Iron	ppm	<b>4</b>	10	8	5
Copper	ppm	<b>&lt;1</b>	3	7	8
Lead	ppm	<b>0</b>	3	2	0
Tin	ppm	<b>0</b>	1	<1	<1
Aluminum	ppm	<b>2</b>	4	4	2
Chromium	ppm	<b>&lt;1</b>	1	<1	<1
Molybdenum	ppm	<b>40</b>	35	26	38
Nickel	ppm	<b>0</b>	1	<1	<1
Titanium	ppm	<b>0</b>	1	2	<1
Silver	ppm	<b>0</b>	<1	<1	0
Manganese	ppm	<b>&lt;1</b>	1	<1	<1
Vanadium	ppm	<b>0</b>	<1	<1	0



### ADDITIVES

Calcium	ppm	<b>1641</b>	1639	2171	1731
Magnesium	ppm	<b>515</b>	443	366	514
Zinc	ppm	<b>1086</b>	1085	1138	1152
Phosphorus	ppm	<b>947</b>	827	935	948
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>44</b>	21	26	35

**Depot:** VOLVO3387  
**Unique No:** 10873258  
**Signed:** Wes Davis  
**Report Date:** 13 Feb 2024



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## GRAPHS

