



# CONSTRUCTION EQUIPMENT

## SYLVITE VOLVO L45H4120181 - DIESEL ENGINE



**Sample No:** VCP444102  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SYLVITE



### SAMPLE INFORMATION

Sample Number	<b>VCP444102</b>	VCP376260	VCP326774	VCP256077
Sample Date	<b>16 Feb 2024</b>	03 Aug 2022	28 Sep 2021	17 Oct 2019
Machine Hours	<b>6167</b>	4579	3613	1145
Oil Hours	<b>0</b>	1500	1500	500
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.7</b>	13.8	13.2	12.4
Base Number (BN)	mg KOH/g	<b>7.5</b>	10.1	---	---
Oxidation (PA)	%	<b>93</b>	99	86	79

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.9</b>	0.6	0.5	0.3
Nitration (PA)	%	<b>98</b>	95	82	63
Sulfation (PA)	%	<b>67</b>	68	64	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>9</b>	8	8	17
Sodium	ppm	<b>2</b>	0	3	6
Potassium	ppm	<b>5</b>	2	6	3

### 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>33</b>	31	31	69
Copper	ppm	<b>11</b>	11	5	8
Lead	ppm	<b>1</b>	<1	0	0
Tin	ppm	<b>1</b>	<1	0	<1
Aluminum	ppm	<b>5</b>	4	3	8
Chromium	ppm	<b>2</b>	1	2	3
Molybdenum	ppm	<b>43</b>	47	44	44
Nickel	ppm	<b>1</b>	0	1	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>1</b>	<1	<1	2
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1516</b>	1887	1897	1663
Magnesium	ppm	<b>514</b>	516	610	548
Zinc	ppm	<b>1095</b>	1172	1086	901
Phosphorus	ppm	<b>856</b>	974	926	655
Barium	ppm	<b>1</b>	2	0	0
Boron	ppm	<b>24</b>	27	20	34

**Depot:** VOLVO0093  
**Unique No:** 10900461  
**Signed:** Wes Davis  
**Report Date:** 28 Feb 2024



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## GRAPHS

