



# CONSTRUCTION EQUIPMENT

## 645703 364142 VOLVO L90G 3781 - DIESEL ENGINE



**Sample No:** VCP431583  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 645703



### SAMPLE INFORMATION

Sample Number	<b>VCP431583</b>	VCP425510	VCP364024	VCP342276
Sample Date	<b>08 Dec 2023</b>	09 May 2023	11 Oct 2022	09 Feb 2022
Machine Hours	<b>0</b>	10350	9569	8661
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

TRADEMARK METALS RECYCLING - DAYTONA-HOLLY HILL  
 402 3RD ST  
 HOLLY HILL, FL  
 US 32117  
 Contact: RYAN BOWDEN

### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	13.1	13.1	13.1
Base Number (BN)	mg KOH/g	<b>9.8</b>	10.4	11.8	11.3
Oxidation (PA)	%	<b>83</b>	79	88	61

T: (386)255-1453  
 F: (386)254-2874

### 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>	0.2	0.3	0.1
Nitration (PA)	%	<b>64</b>	55	64	51
Sulfation (PA)	%	<b>60</b>	60	65	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	5	6	7
Sodium	ppm	<b>4</b>	2	1	1
Potassium	ppm	<b>2</b>	<1	2	2

### WEAR METALS

Iron	ppm	<b>15</b>	8	12	5
Copper	ppm	<b>1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>6</b>	6	9	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>44</b>	45	45	236
Nickel	ppm	<b>&lt;1</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1

### ADDITIVES

Calcium	ppm	<b>1654</b>	1650	1737	1437
Magnesium	ppm	<b>507</b>	592	513	813
Zinc	ppm	<b>1107</b>	1166	1129	1027
Phosphorus	ppm	<b>947</b>	923	941	904
Barium	ppm	<b>12</b>	0	2	0
Boron	ppm	<b>23</b>	30	34	262

**Depot:** TRADAY  
**Unique No:** 10790360  
**Signed:** Wes Davis  
**Report Date:** 15 Dec 2023



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## VOLVO GRAPHS

