



# CONSTRUCTION EQUIPMENT

## D12467 WASTE MGMT VOLVO L70H 624717 - DIESEL ENGINE



**Sample No:** VCP381289  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** D12467 WASTE MGMT



### SAMPLE INFORMATION

Sample Number	<b>VCP381289</b>	VCP419546	VCP407371	VCP381333
Sample Date	<b>28 Jun 2023</b>	24 May 2023	17 Apr 2023	09 Mar 2023
Machine Hours	<b>2570</b>	2349	2217	1865
Oil Hours	<b>1051</b>	132	769	300
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.7</b>	13.3	13.1	12.8
Base Number (BN)	mg KOH/g	<b>8.3</b>	9.4	8.5	10.9
Oxidation (PA)	%	<b>87</b>	86	77	81



### CONTAMINATION

Soot %	%	<b>1.1</b>	1	0.7	0.5
Nitration (PA)	%	<b>83</b>	83	66	61
Sulfation (PA)	%	<b>64</b>	64	57	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>8</b>	7	6	6
Sodium	ppm	<b>2</b>	0	2	3
Potassium	ppm	<b>2</b>	2	0	0



### WEAR METALS

Iron	ppm	<b>31</b>	27	20	13
Copper	ppm	<b>4</b>	2	<1	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>2</b>	1	<1	1
Aluminum	ppm	<b>11</b>	7	6	3
Chromium	ppm	<b>2</b>	2	2	1
Molybdenum	ppm	<b>66</b>	56	55	46
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	1
Vanadium	ppm	<b>0</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1984</b>	1813	1900	1648
Magnesium	ppm	<b>518</b>	459	547	506
Zinc	ppm	<b>1242</b>	1111	1209	1098
Phosphorus	ppm	<b>993</b>	923	977	861
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>34</b>	28	40	40

### 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.

**Depot:** VOLVO0069  
**Unique No:** 10545742  
**Signed:** Wes Davis  
**Report Date:** 05 Jul 2023



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## VOLVO GRAPHS

