



# CONSTRUCTION EQUIPMENT

## D13107 WM A1 VOLVO L70H 624717 - DIESEL ENGINE



**Sample No:** VCP193614  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** D13107 WM A1



### SAMPLE INFORMATION

Sample Number	<b>VCP193614</b>	VCP430781	VCP429537	VCP418998
Sample Date	<b>11 Dec 2023</b>	30 Nov 2023	19 Oct 2023	08 Sep 2023
Machine Hours	<b>3591</b>	3491	3224	2966
Oil Hours	<b>100</b>	0	258	617
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	13.4	12.9	13.48
Base Number (BN)	mg KOH/g	<b>10.6</b>	10.0	9.5	10.0
Oxidation (PA)	%	<b>79</b>	87	77	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>0.2</b>	0.7	0.4	0.7
Nitration (PA)	%	<b>48</b>	72	53	65
Sulfation (PA)	%	<b>62</b>	65	60	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	7	6	8
Sodium	ppm	<b>0</b>	0	2	2
Potassium	ppm	<b>2</b>	2	0	<1



### WEAR METALS

Iron	ppm	<b>6</b>	15	9	15
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	5	4	8
Chromium	ppm	<b>&lt;1</b>	1	<1	1
Molybdenum	ppm	<b>40</b>	47	45	45
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
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>1605</b>	1728	1750	1866
Magnesium	ppm	<b>477</b>	517	525	549
Zinc	ppm	<b>1064</b>	1171	1217	1245
Phosphorus	ppm	<b>881</b>	1003	1012	990
Barium	ppm	<b>12</b>	0	0	0
Boron	ppm	<b>57</b>	32	44	29

**Depot:** VOLVO0069  
**Unique No:** 10790958  
**Signed:** Wes Davis  
**Report Date:** 16 Dec 2023



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## GRAPHS

