



# CONSTRUCTION EQUIPMENT

## VOLVO L180H 5717 - DIESEL ENGINE



**Sample No:** VCP449620  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP449620</b>	VCP436872	VCP416380	VCP420011
Sample Date	<b>08 May 2024</b>	24 Feb 2024	13 Nov 2023	22 Sep 2023
Machine Hours	<b>2747</b>	2234	1568	1225
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

**ALTA EQUIPMENT COMPANY**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	13.2	12.6	12.3
Base Number (BN)	mg KOH/g	<b>9.9</b>	9.5	10.4	10.3
Oxidation (PA)	%	<b>78</b>	65	78	77



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>52</b>	45	47	48
Sulfation (PA)	%	<b>60</b>	54	60	59
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	5	5
Sodium	ppm	<b>&lt;1</b>	1	0	2
Potassium	ppm	<b>2</b>	2	2	0



### WEAR METALS

Iron	ppm	<b>5</b>	5	3	2
Copper	ppm	<b>2</b>	1	2	6
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>1</b>	<1	0	<1
Aluminum	ppm	<b>2</b>	1	1	2
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>61</b>	48	50	61
Nickel	ppm	<b>&lt;1</b>	1	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>2243</b>	1224	1554	1643
Magnesium	ppm	<b>690</b>	605	469	524
Zinc	ppm	<b>1481</b>	1053	1044	1098
Phosphorus	ppm	<b>1357</b>	874	883	909
Barium	ppm	<b>2</b>	1	0	0
Boron	ppm	<b>65</b>	31	63	59

### 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:** VOLVO0090  
**Unique No:** 11022905  
**Signed:** Sean Felton  
**Report Date:** 14 May 2024



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## VOLVO GRAPHS

