



# CONSTRUCTION EQUIPMENT

## 45575 VOLVO L90H 625080 - DIESEL ENGINE



**Sample No:** VCP408289  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 45575



### SAMPLE INFORMATION

Sample Number	<b>VCP408289</b>	VCP386631	VCP364718	VCP374305
Sample Date	<b>22 Aug 2023</b>	03 Jan 2023	24 Aug 2022	06 Jun 2022
Machine Hours	<b>7528</b>	6631	5900	5521
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.5	13.2	12.2
Base Number (BN)	mg KOH/g	<b>10.8</b>	10.1	11.4	9.5
Oxidation (PA)	%	<b>81</b>	80	81	91

### CONTAMINATION

Soot %	%	<b>0.6</b>	1.2	0.7	0.7
Nitration (PA)	%	<b>58</b>	68	60	61
Sulfation (PA)	%	<b>61</b>	63	66	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>14</b>	5	5	6
Sodium	ppm	<b>3</b>	2	2	1
Potassium	ppm	<b>1</b>	0	<1	0

### 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>20</b>	15	11	13
Copper	ppm	<b>5</b>	<1	<1	1
Lead	ppm	<b>&lt;1</b>	<1	0	<1
Tin	ppm	<b>1</b>	<1	<1	<1
Aluminum	ppm	<b>7</b>	6	5	6
Chromium	ppm	<b>2</b>	<1	<1	<1
Molybdenum	ppm	<b>39</b>	43	44	43
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0

### ADDITIVES

Calcium	ppm	<b>1759</b>	1655	1593	1606
Magnesium	ppm	<b>524</b>	502	478	484
Zinc	ppm	<b>1162</b>	1117	1108	1047
Phosphorus	ppm	<b>931</b>	898	904	879
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>35</b>	24	35	36

**Depot:** VOLVO8531  
**Unique No:** 10660802  
**Signed:** Wes Davis  
**Report Date:** 26 Sep 2023



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## GRAPHS

