



# CONSTRUCTION EQUIPMENT

## IMPACT AUTO 382450 VOLVO L90H 623901 - DIESEL ENGINE



**Sample No:** VCP379974  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 382450



### SAMPLE INFORMATION

Sample Number	<b>VCP379974</b>	VCP394690	VCP381025	VCP380544
Sample Date	<b>24 Oct 2023</b>	14 Jul 2023	30 Mar 2023	11 Jan 2023
Machine Hours	<b>12522</b>	12030	11509	11010
Oil Hours	<b>500</b>	500	0	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### STRONGCO EQUIPMENT (CE)

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.4	13.3	13.6
Oxidation (PA)	%	<b>83</b>	84	86	86



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>1</b>	0.9	0.7	0.9
Nitration (PA)	%	<b>66</b>	66	68	69
Sulfation (PA)	%	<b>67</b>	67	66	70
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	5	5
Sodium	ppm	<b>3</b>	3	3	2
Potassium	ppm	<b>0</b>	<1	0	<1

### 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 condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>14</b>	14	18	13
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>6</b>	6	6	9
Chromium	ppm	<b>&lt;1</b>	1	<1	<1
Molybdenum	ppm	<b>41</b>	39	41	41
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1719</b>	1694	1815	1790
Magnesium	ppm	<b>509</b>	517	524	515
Zinc	ppm	<b>1099</b>	1078	1109	1154
Phosphorus	ppm	<b>923</b>	990	1018	1066
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>27</b>	30	33	33

**Depot:** VOLVO0252  
**Unique No:** 5684040  
**Signed:** Wes Davis  
**Report Date:** 27 Nov 2023



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## VOLVO GRAPHS

