



# CONSTRUCTION EQUIPMENT

9721 WASTE CONNECT VOLVO L90G 617183 - DIESEL ENGINE



**Sample No:** VCP426377  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9721 WASTE CONNECT



## SAMPLE INFORMATION

Sample Number	<b>VCP426377</b>	VCP361249	VCP344990	VCP297243
Sample Date	<b>03 Oct 2023</b>	01 Apr 2022	17 Feb 2022	02 Dec 2020
Machine Hours	<b>28006</b>	24810	24530	21161
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	MARGINAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.8</b>	13.4	13.5	14.0
Base Number (BN)	mg KOH/g	<b>7.0</b>	9.6	9.5	---
Oxidation (PA)	%	<b>59</b>	68	68	67



## CONTAMINATION

Soot %	%	<b>0.3</b>	0.3	0.2	0.4
Nitration (PA)	%	<b>52</b>	58	56	66
Sulfation (PA)	%	<b>57</b>	67	67	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>9</b>	7	7	7
Sodium	ppm	<b>1</b>	<1	<1	<1
Potassium	ppm	<b>0</b>	1	2	1



## WEAR METALS

Iron	ppm	<b>12</b>	9	9	14
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>▲ 15</b>	7	9	▲ 12
Chromium	ppm	<b>1</b>	<1	1	2
Molybdenum	ppm	<b>84</b>	121	119	107
Nickel	ppm	<b>1</b>	0	2	3
Titanium	ppm	<b>3</b>	<1	<1	4
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	<1



## ADDITIVES

Calcium	ppm	<b>1356</b>	1498	1642	1688
Magnesium	ppm	<b>399</b>	652	723	690
Zinc	ppm	<b>1249</b>	878	907	842
Phosphorus	ppm	<b>1033</b>	706	769	793
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>348</b>	293	304	236

## Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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.

**Depot:** VOLVO0150  
**Unique No:** 10687277  
**Signed:** Angela Borella  
**Report Date:** 12 Oct 2023



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## GRAPHS

