



# CONSTRUCTION EQUIPMENT

619720 STONE CO VOLVO L350H 1149 - DIESEL ENGINE



**Sample No:** VCP431521  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 619720 STONE CO



## SAMPLE INFORMATION

Sample Number	<b>VCP431521</b>	VCP424550	VCP382866	VCP396159
Sample Date	<b>11 Oct 2023</b>	09 Aug 2023	06 Feb 2023	21 Oct 2022
Machine Hours	<b>4362</b>	3913	3424	2966
Oil Hours	<b>450</b>	500	500	500
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>13.6</b>	13.9	13.9	13.7
Base Number (BN)	mg KOH/g	<b>8.7</b>	8.0	8.0	7.7
Oxidation (PA)	%	<b>61</b>	61	63	31



## CONTAMINATION

Soot %	%	<b>0.7</b>	0.7	0.6	1
Nitration (PA)	%	<b>68</b>	73	70	63
Sulfation (PA)	%	<b>56</b>	57	58	46
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	4	4
Sodium	ppm	<b>2</b>	<1	0	0
Potassium	ppm	<b>2</b>	1	0	0



## WEAR METALS

Iron	ppm	<b>6</b>	11	9	11
Copper	ppm	<b>2</b>	7	3	4
Lead	ppm	<b>&lt;1</b>	1	1	2
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	<1	1	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>57</b>	63	70	63
Nickel	ppm	<b>&lt;1</b>	3	1	1
Titanium	ppm	<b>0</b>	0	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	0



## ADDITIVES

Calcium	ppm	<b>1060</b>	1186	1121	1137
Magnesium	ppm	<b>1026</b>	1068	911	963
Zinc	ppm	<b>1144</b>	1384	1175	1270
Phosphorus	ppm	<b>1028</b>	1082	944	1029
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	<1	48	7

## 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:** VOLVO2990  
**Unique No:** 10729741  
**Signed:** Jonathan Hester  
**Report Date:** 09 Nov 2023



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## VOLVO GRAPHS

