



# CONSTRUCTION EQUIPMENT

581778 STONE VOLVO L350H 1212 - DIESEL ENGINE



**Sample No:** VCP412705  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 581778 STONE



## SAMPLE INFORMATION

Sample Number	<b>VCP412705</b>	VCP407925	VCP426598	VCP396167
Sample Date	<b>07 Aug 2023</b>	08 Jun 2023	11 Apr 2023	16 Nov 2022
Machine Hours	<b>1955</b>	1474	987	518
Oil Hours	<b>1000</b>	500	500	518
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	ABNORMAL

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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## OIL CONDITION

Visc @ 100°C	cSt	█ <b>13.6</b>	█ 13.5	█ 12.9	▲ 11.1
Base Number (BN)	mg KOH/g	█ <b>7.5</b>	█ 6.9	█ 6.7	█ 7.3
Oxidation (PA)	%	<b>68</b>	78	70	73

## 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.



## CONTAMINATION

Soot %	%	█ <b>0.6</b>	█ 0.6	█ 0.5	█ 0.7
Nitration (PA)	%	<b>76</b>	78	78	83
Sulfation (PA)	%	<b>59</b>	63	60	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	█ 0.9
Silicon	ppm	█ <b>4</b>	█ 3	█ 7	█ 27
Sodium	ppm	█ <b>&lt;1</b>	█ 2	█ 1	█ <1
Potassium	ppm	█ <b>5</b>	█ 2	█ 4	█ 7



## WEAR METALS

Iron	ppm	█ <b>12</b>	█ 13	█ 17	█ 32
Copper	ppm	█ <b>4</b>	█ 16	▲ 104	▲ 462
Lead	ppm	█ <b>&lt;1</b>	█ 0	█ 0	█ 1
Tin	ppm	█ <b>&lt;1</b>	█ 0	█ <1	█ 6
Aluminum	ppm	█ <b>1</b>	█ 10	█ 2	█ 4
Chromium	ppm	█ <b>&lt;1</b>	█ 0	█ <1	█ 1
Molybdenum	ppm	█ <b>68</b>	█ 66	█ 72	█ 69
Nickel	ppm	█ <b>&lt;1</b>	█ 0	█ <1	█ 1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Manganese	ppm	█ <b>&lt;1</b>	█ 0	█ <1	█ 2
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	█ <b>1173</b>	█ 1149	█ 1297	█ 1928
Magnesium	ppm	█ <b>1007</b>	█ 992	█ 978	█ 292
Zinc	ppm	█ <b>1280</b>	█ 1296	█ 1357	█ 1203
Phosphorus	ppm	█ <b>999</b>	█ 1001	█ 1046	█ 981
Barium	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Boron	ppm	█ <b>15</b>	█ 9	█ 35	█ 59

**Depot:** VOLVO2990  
**Unique No:** 10604678  
**Signed:** Jonathan Hester  
**Report Date:** 16 Aug 2023



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## GRAPHS

