



# CONSTRUCTION EQUIPMENT

594870 STONE CO VOLVO L220H 3280 - DIESEL ENGINE



**Sample No:** VCP418195  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 594870 STONE CO



## SAMPLE INFORMATION

Sample Number	<b>VCP418195</b>	VCP414120	VCP426806	VCP399388
Sample Date	<b>23 Aug 2023</b>	22 Jun 2023	18 Apr 2023	07 Feb 2023
Machine Hours	<b>6479</b>	6010	5504	5009
Oil Hours	<b>500</b>	510	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT COMPANY - METRO WEST**  
56195 PONTIAC TRAIL  
NEW HUDSON, MI  
US 48165  
Contact: PAUL CONZ  
paul.conz@altg.com  
T: (313)348-8861  
F: (248)356-2029

## OIL CONDITION

Visc @ 100°C	cSt	<b>14.1</b>	14.1	13.9	14.2
Base Number (BN)	mg KOH/g	<b>8.5</b>	9.4	8.9	8.8
Oxidation (PA)	%	<b>54</b>	57	55	55

## CONTAMINATION

Soot %	%	<b>0.3</b>	0.3	0.3	0.3
Nitration (PA)	%	<b>58</b>	58	54	57
Sulfation (PA)	%	<b>51</b>	53	50	50
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>2</b>	2	2	2
Sodium	ppm	<b>2</b>	<1	<1	0
Potassium	ppm	<b>&lt;1</b>	1	0	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>3</b>	2	4	4
Copper	ppm	<b>2</b>	<1	<1	3
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>&lt;1</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	0	0	<1
Molybdenum	ppm	<b>64</b>	60	59	59
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1349</b>	1100	1069	1014
Magnesium	ppm	<b>833</b>	1003	985	941
Zinc	ppm	<b>1318</b>	1341	1316	1206
Phosphorus	ppm	<b>1069</b>	1053	1042	982
Barium	ppm	<b>0</b>	14	0	0
Boron	ppm	<b>9</b>	2	0	0

**Depot:** VOLVO2990  
**Unique No:** 10632444  
**Signed:** Wes Davis  
**Report Date:** 05 Sep 2023



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## GRAPHS

