



# CONSTRUCTION EQUIPMENT

## 45147 VOLVO L60 622196 - DIESEL ENGINE



**Sample No:** VCP408240  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 45147



### SAMPLE INFORMATION

Sample Number	<b>VCP408240</b>	VCP372886	VCP345211	VCP326399
Sample Date	<b>08 Jul 2023</b>	06 Jul 2022	28 Feb 2022	16 Sep 2021
Machine Hours	<b>4774</b>	3086	2530	1891
Oil Hours	<b>0</b>	0	0	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

**365 - ASCENDUM MACHINERY INC - SAVANNAH**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	13.0	13.1	▲ 12.2
Base Number (BN)	mg KOH/g	<b>10.6</b>	11.4	9.9	---
Oxidation (PA)	%	<b>86</b>	88	78	80

### 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>	0.3	0.2	0.5
Nitration (PA)	%	<b>77</b>	72	60	63
Sulfation (PA)	%	<b>61</b>	66	59	62
Glycol	%	<b>NEG</b>	NEG	NEG	0.0
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	1.5
Silicon	ppm	<b>6</b>	5	6	7
Sodium	ppm	<b>3</b>	2	2	2
Potassium	ppm	<b>&lt;1</b>	0	<1	<1



### WEAR METALS

Iron	ppm	<b>14</b>	11	13	16
Copper	ppm	<b>1</b>	1	1	<1
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	1
Aluminum	ppm	<b>2</b>	3	2	5
Chromium	ppm	<b>&lt;1</b>	<1	1	1
Molybdenum	ppm	<b>41</b>	44	45	52
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1852</b>	1729	1760	1708
Magnesium	ppm	<b>550</b>	500	547	546
Zinc	ppm	<b>1222</b>	1086	1217	1275
Phosphorus	ppm	<b>970</b>	894	1011	978
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>26</b>	29	41	43

**Depot:** VOLVO8531  
**Unique No:** 10660774  
**Signed:** Wes Davis  
**Report Date:** 26 Sep 2023



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## GRAPHS

