



# CONSTRUCTION EQUIPMENT

## 600151 CRC-WM VOLVO L120H 632093 - DIESEL ENGINE



**Sample No:** VCP403244  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 600151 CRC-WM



### SAMPLE INFORMATION

Sample Number	<b>VCP403244</b>	VCP363785	VCP351801	VCP256031
Sample Date	<b>07 Jul 2023</b>	11 Oct 2022	18 Apr 2022	22 Sep 2021
Machine Hours	<b>18667</b>	16539	15363	13470
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**PACWEST MACHINERY**  
 8207 SOUTH 216TH STREET  
 KENT, WA  
 US 98032  
 Contact: DAN SLAGLE  
 dslagle@pacwestmachinery.com  
 T: (206)482-4179  
 F: (509)534-5286



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	14.4	14.9	14.3
Base Number (BN)	mg KOH/g	<b>9.5</b>	8.1	7.1	---
Oxidation (PA)	%	<b>88</b>	108	83	97



### CONTAMINATION

Water	%	---	---	---	0.102
Soot %	%	<b>0.3</b>	0.4	0.2	0.6
Nitration (PA)	%	<b>77</b>	109	93	107
Sulfation (PA)	%	<b>66</b>	77	71	71
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	11	7	16
Sodium	ppm	<b>0</b>	<1	1	3
Potassium	ppm	<b>1</b>	0	2	0



### WEAR METALS

Iron	ppm	<b>11</b>	15	11	16
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>&lt;1</b>	1	<1	1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	2	2	9
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>44</b>	31	19	28
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1689</b>	2072	2394	2346
Magnesium	ppm	<b>582</b>	431	304	352
Zinc	ppm	<b>1227</b>	1236	1341	1241
Phosphorus	ppm	<b>1018</b>	1001	1080	1055
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>43</b>	26	27	19

### Diagnosis

Resample at the next service interval to monitor. (checking for engine damage). 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 acceptable for the time in service.

**Depot:** VOLVO1271  
**Unique No:** 10552466  
**Signed:** Don Baldrige  
**Report Date:** 14 Jul 2023



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## GRAPHS

