



# CONSTRUCTION EQUIPMENT

607916 VOLVO L120H 14672 - DIESEL ENGINE



**Sample No:** VCP431520  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 607916



## SAMPLE INFORMATION

Sample Number	<b>VCP431520</b>	VCP399368	VCP397292	VCP376363
Sample Date	<b>12 Oct 2023</b>	15 Mar 2023	01 Nov 2022	14 Jul 2022
Machine Hours	<b>9201</b>	8570	8087	7586
Oil Hours	<b>500</b>	0	0	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>13.9</b>	14.3	13.5	13.3
Base Number (BN)	mg KOH/g	<b>9.1</b>	9.8	10.8	10.4
Oxidation (PA)	%	<b>64</b>	59	67	69

## CONTAMINATION

Soot %	%	<b>0.2</b>	0.2	0.2	0.3
Nitration (PA)	%	<b>63</b>	61	70	69
Sulfation (PA)	%	<b>53</b>	52	57	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>2</b>	3	2	4
Sodium	ppm	<b>2</b>	<1	<1	2
Potassium	ppm	<b>2</b>	<1	1	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>8</b>	10	8	9
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>5</b>	4	5	9
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>53</b>	58	59	59
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1147</b>	1086	1116	1234
Magnesium	ppm	<b>890</b>	896	899	893
Zinc	ppm	<b>1100</b>	1235	1252	1234
Phosphorus	ppm	<b>1016</b>	997	1032	1059
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>4</b>	0	3	12

**Depot:** BLADET  
**Unique No:** 10729737  
**Signed:** Jonathan Hester  
**Report Date:** 09 Nov 2023



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## VOLVO GRAPHS

