



# CONSTRUCTION EQUIPMENT

SPM593825 VOLVO L20H 1220316 - DIESEL ENGINE



Sample No: VCP415260

Oil Type: DIESEL ENGINE OIL SAE 15W40

Job No: SPM593825



## SAMPLE INFORMATION

Sample Number	<b>VCP415260</b>	VCP390866	VCP358133	VCP342317
Sample Date	<b>11 Aug 2023</b>	23 Mar 2023	11 Apr 2022	23 Dec 2021
Machine Hours	<b>2430</b>	1853	932	506
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION



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## OIL CONDITION

Visc @ 100°C	cSt	<b>14.5</b>	13.6	13.7	▲ 11.62
Base Number (BN)	mg KOH/g	<b>8.0</b>	8.2	10.3	10.3
Oxidation (PA)	%	<b>73</b>	74	77	89



## CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>83</b>	87	81	72
Sulfation (PA)	%	<b>55</b>	55	57	64
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	0.1
Silicon	ppm	<b>4</b>	6	6	14
Sodium	ppm	<b>2</b>	2	2	4
Potassium	ppm	<b>&lt;1</b>	0	0	0



## WEAR METALS

Iron	ppm	<b>6</b>	6	7	10
Copper	ppm	<b>2</b>	<1	4	10
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>1</b>	<1	1	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>62</b>	59	57	35
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	2
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1106</b>	1070	1163	1628
Magnesium	ppm	<b>1047</b>	930	930	400
Zinc	ppm	<b>1310</b>	1218	1195	1036
Phosphorus	ppm	<b>1060</b>	986	1052	815
Barium	ppm	<b>0</b>	0	0	1
Boron	ppm	<b>0</b>	0	10	39

## 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.

**Depot:** VOLVO8885  
**Unique No:** 10615930  
**Signed:** Wes Davis  
**Report Date:** 22 Aug 2023



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## GRAPHS

