



# CONSTRUCTION EQUIPMENT

## 9458 MAGSTONE VOLVO L120H 632611 - DIESEL ENGINE



**Sample No:** VCP413670  
**Oil Type:** CHEVRON 15W40  
**Job No:** 9458 MAGSTONE



### SAMPLE INFORMATION

Sample Number	<b>VCP413670</b>	VCP422866	VCP392535	VCP390100
Sample Date	<b>11 Aug 2023</b>	01 May 2023	03 Feb 2023	22 Nov 2022
Machine Hours	<b>3985</b>	3489	3000	2720
Oil Hours	<b>0</b>	0	0	0
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>13.4</b>	13.4	13.7	13.5
Base Number (BN)	mg KOH/g	<b>8.0</b>	7.0	8.3	9.7
Oxidation (PA)	%	<b>63</b>	59	61	70



### CONTAMINATION

Soot %	%	<b>0.2</b>	0.2	0.1	0.2
Nitration (PA)	%	<b>58</b>	53	51	63
Sulfation (PA)	%	<b>60</b>	55	59	67
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	5	5	7
Sodium	ppm	<b>0</b>	1	<1	<1
Potassium	ppm	<b>1</b>	3	2	3



### WEAR METALS

Iron	ppm	<b>7</b>	6	4	7
Copper	ppm	<b>1</b>	1	<1	2
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>5</b>	4	3	5
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>97</b>	97	93	122
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>&lt;1</b>	1	2	<1
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1389</b>	1656	1430	1500
Magnesium	ppm	<b>382</b>	501	410	539
Zinc	ppm	<b>1197</b>	1297	1173	999
Phosphorus	ppm	<b>1014</b>	1024	999	829
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>408</b>	377	440	364

### 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:** VOLV00150  
**Unique No:** 10607033  
**Signed:** Wes Davis  
**Report Date:** 18 Aug 2023



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## GRAPHS

