



# CONSTRUCTION EQUIPMENT

SW1028428 MGC VOLVO L110H 631394 - DIESEL ENGINE



**Sample No:** VCP437532  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SW1028428 MGC



## SAMPLE INFORMATION

Sample Number	<b>VCP437532</b>	VCP409764	VCP353785	VCP303002
Sample Date	<b>17 Jan 2024</b>	14 Jul 2023	02 Aug 2022	10 Jun 2021
Machine Hours	<b>3173</b>	2647	2113	1511
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>13.1</b>	13.6	13.0	12.9
Base Number (BN)	mg KOH/g	<b>10.2</b>	9.9	11.1	---
Oxidation (PA)	%	<b>79</b>	67	88	86

## 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

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.3	0.4	0.3
Nitration (PA)	%	<b>58</b>	62	70	59
Sulfation (PA)	%	<b>60</b>	55	67	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	7	8	10
Sodium	ppm	<b>0</b>	2	<1	0
Potassium	ppm	<b>2</b>	0	<1	<1



## WEAR METALS

Iron	ppm	<b>11</b>	15	19	14
Copper	ppm	<b>2</b>	2	3	3
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>1</b>	2	2	1
Aluminum	ppm	<b>5</b>	10	15	12
Chromium	ppm	<b>&lt;1</b>	<1	1	1
Molybdenum	ppm	<b>41</b>	53	46	40
Nickel	ppm	<b>&lt;1</b>	<1	0	0
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	<1	<1	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1520</b>	1445	1643	1577
Magnesium	ppm	<b>512</b>	831	483	458
Zinc	ppm	<b>1090</b>	1301	1134	1031
Phosphorus	ppm	<b>890</b>	1060	942	897
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>45</b>	24	49	84

**Depot:** VOLVO6174  
**Unique No:** 10850393  
**Signed:** Wes Davis  
**Report Date:** 31 Jan 2024



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## GRAPHS

