



# CONSTRUCTION EQUIPMENT

## GDS MATARE VOLVO L110H 632254 - DIESEL ENGINE



**Sample No:** VCP392134  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP392134</b>	VCP380219	VCP380435	VCP391603
Sample Date	<b>10 Nov 2023</b>	13 Oct 2023	15 Sep 2023	17 Aug 2023
Machine Hours	<b>12445</b>	11835	11246	10632
Oil Hours	<b>0</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>13.4</b>	13.1	13.2	13.3
Oxidation (PA)	%	<b>83</b>	88	83	78



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>62</b>	67	64	62
Sulfation (PA)	%	<b>63</b>	65	63	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	4	4	4
Sodium	ppm	<b>2</b>	3	3	2
Potassium	ppm	<b>&lt;1</b>	0	<1	<1

### Diagnosis

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. Il n'y a aucun indice de contamination dans l'huile. L'état de l'huile est acceptable pour la durée de service.



### WEAR METALS

Iron	ppm	<b>8</b>	10	11	10
Copper	ppm	<b>&lt;1</b>	1	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>4</b>	5	6	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>52</b>	42	44	54
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>&lt;1</b>	<1	<1	0
Manganese	ppm	<b>0</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1697</b>	1762	1772	1683
Magnesium	ppm	<b>508</b>	515	523	504
Zinc	ppm	<b>1122</b>	1108	1131	1154
Phosphorus	ppm	<b>932</b>	939	940	1031
Barium	ppm	<b>&lt;1</b>	<1	<1	<1
Boron	ppm	<b>82</b>	27	29	86

**Depot:** VOLVO0228  
**Unique No:** 5695800  
**Signed:** Wes Davis  
**Report Date:** 13 Dec 2023



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## VOLVO GRAPHS

