



# CONSTRUCTION EQUIPMENT

399686 VOLVO L110G 8316 - DIESEL ENGINE



**Sample No:** VCP429853  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 399686



## SAMPLE INFORMATION

Sample Number	<b>VCP429853</b>	VCP429843	VCP392857	VCP391792
Sample Date	<b>07 Apr 2024</b>	16 Feb 2024	15 Dec 2023	24 Jul 2023
Machine Hours	<b>25618</b>	25034	24725	23664
Oil Hours	<b>500</b>	500	500	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>	13.3	13.2	13.8
Oxidation (PA)	%	<b>81</b>	81	73	84

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.1	0.2	0.8
Nitration (PA)	%	<b>57</b>	58	56	68
Sulfation (PA)	%	<b>63</b>	62	60	68
Glycol	%	<b>NEG</b>	NEG	NEG	0.0
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	3	3	4
Sodium	ppm	<b>11</b>	7	11	17
Potassium	ppm	<b>4</b>	2	4	5

## 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>23</b>	15	20	22
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>4</b>	2	3	4
Chromium	ppm	<b>1</b>	<1	<1	1
Molybdenum	ppm	<b>42</b>	39	44	45
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	<1
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1784</b>	1845	1782	1764
Magnesium	ppm	<b>525</b>	494	551	550
Zinc	ppm	<b>1142</b>	1137	1160	1109
Phosphorus	ppm	<b>946</b>	984	1018	1006
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>36</b>	32	30	24

**Depot:** VOLVO0228  
**Unique No:** 5760407  
**Signed:** Wes Davis  
**Report Date:** 08 Apr 2024



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## GRAPHS

