



# CONSTRUCTION EQUIPMENT

379885 VOLVO 110H 632019 - DIESEL ENGINE



**Sample No:** VCP380403  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 379885



## SAMPLE INFORMATION

Sample Number	<b>VCP380403</b>	VCP391601	VCP381803	VCP381400
Sample Date	<b>04 Oct 2023</b>	16 Aug 2023	12 May 2023	02 Feb 2023
Machine Hours	<b>5053</b>	4733	4250	3762
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>12.9</b>	13.2	13.3	13.6
Oxidation (PA)	%	<b>81</b>	84	82	87



## CONTAMINATION

Soot %	%	<b>0.1</b>	0.2	0.1	0
Nitration (PA)	%	<b>55</b>	64	59	67
Sulfation (PA)	%	<b>63</b>	66	63	68
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	5
Sodium	ppm	<b>3</b>	3	3	3
Potassium	ppm	<b>0</b>	<1	<1	0

## 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	9	12
Copper	ppm	<b>&lt;1</b>	1	1	1
Lead	ppm	<b>&lt;1</b>	0	<1	0
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>3</b>	4	5	6
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>41</b>	41	38	43
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1712</b>	1712	1853	1813
Magnesium	ppm	<b>512</b>	525	481	528
Zinc	ppm	<b>1099</b>	1141	1109	1125
Phosphorus	ppm	<b>932</b>	1026	1013	1037
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>35</b>	33	53	41

**Depot:** VOLVO0228  
**Unique No:** 5657154  
**Signed:** Wes Davis  
**Report Date:** 11 Oct 2023



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## GRAPHS

