



# CONSTRUCTION EQUIPMENT

374989 VOLVO 110H 632019 - DIESEL ENGINE



**Sample No:** VCP391601  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 374989



## SAMPLE INFORMATION

Sample Number	<b>VCP391601</b>	VCP381803	VCP381400	VCP353007
Sample Date	<b>16 Aug 2023</b>	12 May 2023	02 Feb 2023	02 Nov 2022
Machine Hours	<b>4733</b>	4250	3762	3185
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**STRONGCO EQUIPMENT INC (STE- FOY)**  
 175, rue de Rotterdam  
 St-Augustin-de-Desmaures, QC  
 CA G3A 2K2  
 Contact: Michel Lepage  
 mlepage@strongco.com  
 T: (418)870-1700  
 F: (418)870-1701



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.3	13.6	13.4
Oxidation (PA)	%	<b>84</b>	82	87	86



## CONTAMINATION

Soot %	%	<b>0.2</b>	0.1	0	0.1
Nitration (PA)	%	<b>64</b>	59	67	63
Sulfation (PA)	%	<b>66</b>	63	68	67
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	5	5
Sodium	ppm	<b>3</b>	3	3	3
Potassium	ppm	<b>&lt;1</b>	<1	0	<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>10</b>	9	12	11
Copper	ppm	<b>1</b>	1	1	2
Lead	ppm	<b>0</b>	<1	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	5	6	6
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>41</b>	38	43	44
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1712</b>	1853	1813	1793
Magnesium	ppm	<b>525</b>	481	528	528
Zinc	ppm	<b>1141</b>	1109	1125	1129
Phosphorus	ppm	<b>1026</b>	1013	1037	1038
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>33</b>	53	41	38

**Depot:** VOLVO0228  
**Unique No:** 5629443  
**Signed:** Wes Davis  
**Report Date:** 17 Aug 2023



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## GRAPHS

