



# CONSTRUCTION EQUIPMENT

GDS MATARE 381090 VOLVO L110H 632254 - DIESEL ENGINE



**Sample No:** VCP380219  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 381090



## SAMPLE INFORMATION

Sample Number	<b>VCP380219</b>	VCP380435	VCP391603	VCP391537
Sample Date	<b>13 Oct 2023</b>	15 Sep 2023	17 Aug 2023	17 Jul 2023
Machine Hours	<b>11835</b>	11246	10632	10114
Oil Hours	<b>0</b>	0	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### STRONGCO EQUIPMENT INC (STE- FOY)

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.2	13.3	14.0
Oxidation (PA)	%	<b>88</b>	83	78	65



## CONTAMINATION

Soot %	%	<b>0.2</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>67</b>	64	62	59
Sulfation (PA)	%	<b>65</b>	63	65	60
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	2	2
Potassium	ppm	<b>0</b>	<1	<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>10</b>	11	10	7
Copper	ppm	<b>1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>5</b>	6	4	5
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>42</b>	44	54	86
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>&lt;1</b>	<1	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1762</b>	1772	1683	1669
Magnesium	ppm	<b>515</b>	523	504	479
Zinc	ppm	<b>1108</b>	1131	1154	1307
Phosphorus	ppm	<b>939</b>	940	1031	1180
Barium	ppm	<b>&lt;1</b>	<1	<1	0
Boron	ppm	<b>27</b>	29	86	241

**Depot:** VOLVO0228  
**Unique No:** 5669455  
**Signed:** Wes Davis  
**Report Date:** 27 Oct 2023



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## VOLVO GRAPHS

