



# CONSTRUCTION EQUIPMENT

## IMPACT AUTO 384876 VOLVO L90G 617649 - DIESEL ENGINE



**Sample No:** VCP394058  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 384876



### SAMPLE INFORMATION

Sample Number	<b>VCP394058</b>	VCP352933	VCP347050	VCP273995
Sample Date	<b>07 Dec 2023</b>	12 Jan 2023	21 Mar 2022	17 Mar 2021
Machine Hours	<b>14115</b>	13070	12025	11214
Oil Hours	<b>500</b>	0	0	500
Oil Changed	<b>Changed</b>	Changed	Not Changd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	SEVERE	NORMAL

### STRONGCO EQUIPMENT-EDMONTON

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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.1	8.1	13.1
Oxidation (PA)	%	<b>83</b>	86	73	82



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0	0	0.1
Nitration (PA)	%	<b>57</b>	62	56	57
Sulfation (PA)	%	<b>61</b>	65	62	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	0.7	14.2	<1.0
Silicon	ppm	<b>5</b>	5	7	6
Sodium	ppm	<b>3</b>	3	2	3
Potassium	ppm	<b>0</b>	0	0	<1

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>8</b>	9	16	11
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>6</b>	6	5	8
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>42</b>	40	34	40
Nickel	ppm	<b>&lt;1</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	<1	0	0
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>1667</b>	1752	1413	1639
Magnesium	ppm	<b>504</b>	495	442	498
Zinc	ppm	<b>1080</b>	1089	934	1132
Phosphorus	ppm	<b>905</b>	994	822	898
Barium	ppm	<b>&lt;1</b>	0	0	<1
Boron	ppm	<b>35</b>	37	37	42

**Depot:** VOLVO3908  
**Unique No:** 5694904  
**Signed:** Wes Davis  
**Report Date:** 08 Dec 2023



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## VOLVO GRAPHS

