



# CONSTRUCTION EQUIPMENT

## S1600 AGROMIN SAC VOLVO L90H 632394 - DIESEL ENGINE



**Sample No:** VCP438676  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** S1600 AGROMIN SAC



### SAMPLE INFORMATION

Sample Number	<b>VCP438676</b>	VCP424180	VCP397921	VCP386596
Sample Date	<b>26 Jan 2024</b>	05 Oct 2023	31 Mar 2023	21 Dec 2022
Machine Hours	<b>3762</b>	2598	1061	499
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**VCES- VOLVO CONSTRUCTION EQUIPMENT**  
 8594 FRUITRIDGE ROAD  
 SACRAMENTO, CA  
 US 95826  
 Contact: RAY KRANZUSCH  
 ray.kranzusch@vcesvolvo.com  
 T:  
 F:



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.6</b>	13.8	13.0	12.6
Base Number (BN)	mg KOH/g	<b>8.6</b>	8.0	10.3	10
Oxidation (PA)	%	<b>86</b>	51	83	76

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.4</b>	0.1	0.2	0.2
Nitration (PA)	%	<b>77</b>	61	58	58
Sulfation (PA)	%	<b>61</b>	48	61	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>11</b>	5	7	11
Sodium	ppm	<b>0</b>	<1	2	2
Potassium	ppm	<b>2</b>	<1	1	3



### WEAR METALS

Iron	ppm	<b>29</b>	4	13	22
Copper	ppm	<b>8</b>	<1	5	12
Lead	ppm	<b>2</b>	0	<1	2
Tin	ppm	<b>2</b>	<1	2	2
Aluminum	ppm	<b>5</b>	2	8	39
Chromium	ppm	<b>2</b>	<1	1	2
Molybdenum	ppm	<b>43</b>	3	37	43
Nickel	ppm	<b>1</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	1	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	2
Vanadium	ppm	<b>0</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1795</b>	1270	1475	1520
Magnesium	ppm	<b>644</b>	711	453	558
Zinc	ppm	<b>1285</b>	840	1031	1104
Phosphorus	ppm	<b>948</b>	720	839	955
Barium	ppm	<b>0</b>	<1	0	<1
Boron	ppm	<b>32</b>	74	38	78

**Depot:** VOLVO4485  
**Unique No:** 10872646  
**Signed:** Wes Davis  
**Report Date:** 12 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

