



# CONSTRUCTION EQUIPMENT

## IAA RANCHO CORDOVA VOLVO L90H 625741 - DIESEL ENGINE



**Sample No:** VCP437831  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** IAA RANCHO CORDOVA



### SAMPLE INFORMATION

Sample Number	<b>VCP437831</b>	VCP423011	VCP404698	VCP381082
Sample Date	<b>15 Mar 2024</b>	16 Nov 2023	17 Apr 2023	09 Nov 2022
Machine Hours	<b>4360</b>	3823	2761	2011
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

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	12.9	13.3	13.4
Base Number (BN)	mg KOH/g	<b>10.4</b>	10.6	8.9	12.1
Oxidation (PA)	%	<b>82</b>	81	79	88

### 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>0.2</b>	0.2	0.3	0.2
Nitration (PA)	%	<b>55</b>	53	59	58
Sulfation (PA)	%	<b>60</b>	61	56	66
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>9</b>	5	7	5
Sodium	ppm	<b>5</b>	3	2	<1
Potassium	ppm	<b>1</b>	<1	2	1



### WEAR METALS

Iron	ppm	<b>9</b>	3	12	9
Copper	ppm	<b>1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	0	<1	0
Tin	ppm	<b>&lt;1</b>	<1	1	<1
Aluminum	ppm	<b>6</b>	2	6	5
Chromium	ppm	<b>1</b>	<1	1	<1
Molybdenum	ppm	<b>54</b>	36	40	42
Nickel	ppm	<b>&lt;1</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>2201</b>	1565	1732	1709
Magnesium	ppm	<b>662</b>	481	532	478
Zinc	ppm	<b>1454</b>	1153	1232	1144
Phosphorus	ppm	<b>1219</b>	971	1007	944
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>59</b>	42	38	46

**Depot:** VOLVO4485  
**Unique No:** 10937555  
**Signed:** Wes Davis  
**Report Date:** 21 Mar 2024



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## GRAPHS

