



# CONSTRUCTION EQUIPMENT

## 1314 IAA RANCHO CORD VOLVO L90H 625739 - DIESEL ENGINE



**Sample No:** VCP441706  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 1314 IAA RANCHO CORD



### SAMPLE INFORMATION

Sample Number	<b>VCP441706</b>	VCP404700	VCP386266	VCP375074
Sample Date	<b>17 Nov 2023</b>	28 Apr 2023	27 Jan 2023	19 Oct 2022
Machine Hours	<b>5472</b>	4500	4010	3497
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Not Changd
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>13.0</b>	12.8	13.6	13.5
Base Number (BN)	mg KOH/g	<b>10.6</b>	9.4	10.5	7.3
Oxidation (PA)	%	<b>81</b>	77	82	70

### 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	0.5
Nitration (PA)	%	<b>54</b>	52	58	93
Sulfation (PA)	%	<b>61</b>	56	61	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	6	5	6
Sodium	ppm	<b>3</b>	3	2	<1
Potassium	ppm	<b>&lt;1</b>	2	0	1



### WEAR METALS

Iron	ppm	<b>3</b>	6	8	10
Copper	ppm	<b>0</b>	0	<1	<1
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	<1	3	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>36</b>	39	42	46
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1573</b>	1668	1727	1940
Magnesium	ppm	<b>484</b>	528	494	535
Zinc	ppm	<b>1141</b>	1175	1160	1505
Phosphorus	ppm	<b>963</b>	961	954	1224
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>40</b>	46	45	34

**Depot:** VOLVO4485  
**Unique No:** 10764763  
**Signed:** Wes Davis  
**Report Date:** 30 Nov 2023



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## VOLVO GRAPHS

