



# CONSTRUCTION EQUIPMENT

567629 IAA VOLVO L90H 623580 - DIESEL ENGINE



**Sample No:** VCP427175  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 567629 IAA



## SAMPLE INFORMATION

Sample Number	<b>VCP427175</b>	VCP392969	VCP382257	VCP372644
Sample Date	<b>23 Jun 2023</b>	27 Feb 2023	07 Nov 2022	24 Jun 2022
Machine Hours	<b>12505</b>	11996	11575	11042
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



**ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC**  
 9601 BOGGY CREEK RD  
 ORLANDO, FL  
 US 32824  
 Contact: Robert LaPlante  
 robert.laplante@altg.com  
 T: (407)508-9736  
 F: (407)659-8720



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.2	13.1	13.4
Base Number (BN)	mg KOH/g	<b>10.2</b>	10.6	11.2	11.0
Oxidation (PA)	%	<b>81</b>	82	89	84



## CONTAMINATION

Soot %	%	<b>0.4</b>	0.3	0.3	0.3
Nitration (PA)	%	<b>66</b>	62	72	61
Sulfation (PA)	%	<b>60</b>	60	64	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	3	4	6
Sodium	ppm	<b>4</b>	0	2	2
Potassium	ppm	<b>2</b>	<1	2	0



## WEAR METALS

Iron	ppm	<b>5</b>	4	6	6
Copper	ppm	<b>&lt;1</b>	0	<1	<1
Lead	ppm	<b>&lt;1</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>2</b>	3	4	3
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>48</b>	41	43	41
Nickel	ppm	<b>&lt;1</b>	0	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1703</b>	1630	1679	1660
Magnesium	ppm	<b>593</b>	481	508	498
Zinc	ppm	<b>1186</b>	1077	1109	1093
Phosphorus	ppm	<b>973</b>	907	912	881
Barium	ppm	<b>&lt;1</b>	<1	0	0
Boron	ppm	<b>31</b>	40	30	46

## 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.

**Depot:** VOLVO0096  
**Unique No:** 10535828  
**Signed:** Wes Davis  
**Report Date:** 30 Jun 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

