



# CONSTRUCTION EQUIPMENT

W07013457 BECO CONST VOLVO A30G 742486 - DIESEL ENGINE



**Sample No:** VCP399842  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** W07013457 BECO CONST



## SAMPLE INFORMATION

Sample Number	<b>VCP399842</b>	VCP393201	VCP336409	---
Sample Date	<b>11 Oct 2023</b>	30 Aug 2023	22 Oct 2021	---
Machine Hours	<b>3468</b>	3416	1567	---
Oil Hours	<b>100</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	ABNORMAL	ATTENTION	---

**MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND**  
 1345 MOUNTAIN ROAD  
 GLEN ALLEN, VA  
 US 23060  
 Contact: KYLE RATLIFF  
 KRATLIFF@MCCLUNG-LOGAN.COM  
 T:  
 F: (804)266-1611



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.4</b>	12.1	11.9	---
Base Number (BN)	mg KOH/g	<b>7.5</b>	9.6	---	---
Oxidation (PA)	%	<b>53</b>	76	75	---



## CONTAMINATION

Soot %	%	<b>0.1</b>	0.4	0.3	---
Nitration (PA)	%	<b>57</b>	62	64	---
Sulfation (PA)	%	<b>47</b>	61	61	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>0.6</b>	3.5	2.5	---
Silicon	ppm	<b>16</b>	8	6	---
Sodium	ppm	<b>2</b>	3	12	---
Potassium	ppm	<b>2</b>	0	<1	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Tests indicate that there is no fuel present in the oil. 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.



## WEAR METALS

Iron	ppm	<b>12</b>	10	10	---
Copper	ppm	<b>1</b>	2	7	---
Lead	ppm	<b>&lt;1</b>	0	<1	---
Tin	ppm	<b>&lt;1</b>	<1	1	---
Aluminum	ppm	<b>7</b>	2	2	---
Chromium	ppm	<b>&lt;1</b>	<1	<1	---
Molybdenum	ppm	<b>71</b>	45	55	---
Nickel	ppm	<b>&lt;1</b>	0	0	---
Titanium	ppm	<b>1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>1715</b>	1608	1463	---
Magnesium	ppm	<b>207</b>	657	609	---
Zinc	ppm	<b>1041</b>	1224	1171	---
Phosphorus	ppm	<b>835</b>	1011	946	---
Barium	ppm	<b>3</b>	0	0	---
Boron	ppm	<b>79</b>	57	58	---

**Depot:** VOLVO8882  
**Unique No:** 10697599  
**Signed:** Don Baldrige  
**Report Date:** 18 Oct 2023



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## GRAPHS

