



# CONSTRUCTION EQUIPMENT

## JOHN DEERE 650K 415431 - DIESEL ENGINE



**Sample No:** VCP323821  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



**ALTA EQUIPMENT COMPANY**  
 5151 DR MARTIN LUTHER KING BLVD  
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### SAMPLE INFORMATION

Sample Number	VCP323821	---	---	---
Sample Date	11 Sep 2023	---	---	---
Machine Hours	729	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---



### OIL CONDITION

Visc @ 100°C	cSt	█ 14.7	---	---	---
Base Number (BN)	mg KOH/g	█ 10.0	---	---	---
Oxidation (PA)	%	59	---	---	---



### CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	55	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 9	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 3	---	---	---



### WEAR METALS

Iron	ppm	█ 8	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 237	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	█ 1617	---	---	---
Magnesium	ppm	█ 883	---	---	---
Zinc	ppm	█ 1203	---	---	---
Phosphorus	ppm	█ 969	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 278	---	---	---

### Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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 acceptable for the time in service.

**Depot:** VOLVO0090  
**Unique No:** 10649646  
**Signed:** Sean Felton  
**Report Date:** 20 Sep 2023



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## GRAPHS

