



# CONSTRUCTION EQUIPMENT

## SWO-069745 APAC AL VOLVO L150H 6816 - DIESEL ENGINE



**Sample No:** VCP443300  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-069745 APAC AL



### SAMPLE INFORMATION

Sample Number	<b>VCP443300</b>	VCP289488	VCP271671	---
Sample Date	<b>15 Feb 2024</b>	07 Oct 2020	28 May 2020	---
Machine Hours	<b>7536</b>	2531	2006	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	ABNORMAL	ABNORMAL	---

### COWIN EQUIPMENT COMPANY

2238 PINSON VALLEY PARKWAY  
 BIRMINGHAM, AL  
 US 35217  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	13.0	12.6	---
Base Number (BN)	mg KOH/g	<b>6.8</b>	---	---	---
Oxidation (PA)	%	<b>53</b>	53	53	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.1</b>	0.1	0.1	---
Nitration (PA)	%	<b>58</b>	69	70	---
Sulfation (PA)	%	<b>54</b>	55	55	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>8</b>	5	5	---
Sodium	ppm	<b>&lt;1</b>	3	3	---
Potassium	ppm	<b>0</b>	5	3	---



### WEAR METALS

Iron	ppm	<b>5</b>	6	5	---
Copper	ppm	<b>&lt;1</b>	▲ 127	▲ 122	---
Lead	ppm	<b>&lt;1</b>	2	<1	---
Tin	ppm	<b>&lt;1</b>	0	<1	---
Aluminum	ppm	<b>3</b>	1	<1	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>79</b>	3	4	---
Nickel	ppm	<b>0</b>	<1	<1	---
Titanium	ppm	<b>0</b>	<1	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	<1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1568</b>	1523	1240	---
Magnesium	ppm	<b>241</b>	834	612	---
Zinc	ppm	<b>1162</b>	851	702	---
Phosphorus	ppm	<b>974</b>	719	649	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>246</b>	52	59	---

### 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:** VOLVO8528  
**Unique No:** 10886747  
**Signed:** Wes Davis  
**Report Date:** 21 Feb 2024



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## GRAPHS

