



# CONSTRUCTION EQUIPMENT

## 45532 VOLVO L150H 6755 - DIESEL ENGINE



**Sample No:** VCP432839  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 45532



### SAMPLE INFORMATION

Sample Number	<b>VCP432839</b>	VCP369572	VCP266199	VCP261716
Sample Date	<b>17 Aug 2023</b>	04 Nov 2022	16 Mar 2020	04 Nov 2019
Machine Hours	<b>10107</b>	8108	1991	1006
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	13.3	12.9	12.9
Base Number (BN)	mg KOH/g	<b>8.9</b>	6.1	---	---
Oxidation (PA)	%	<b>57</b>	65	46	51

### CONTAMINATION

Soot %	%	<b>0.1</b>	0.3	0.2	0.1
Nitration (PA)	%	<b>48</b>	88	55	46
Sulfation (PA)	%	<b>52</b>	62	50	52
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	9	5	6
Sodium	ppm	<b>1</b>	4	2	2
Potassium	ppm	<b>1</b>	0	1	0

### 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.

### WEAR METALS

Iron	ppm	<b>2</b>	7	5	4
Copper	ppm	<b>&lt;1</b>	2	8	64
Lead	ppm	<b>0</b>	2	<1	<1
Tin	ppm	<b>0</b>	<1	<1	1
Aluminum	ppm	<b>0</b>	4	2	3
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>57</b>	84	40	59
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>2</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1495</b>	2043	1866	1642
Magnesium	ppm	<b>492</b>	63	245	312
Zinc	ppm	<b>1155</b>	1114	881	833
Phosphorus	ppm	<b>932</b>	874	813	738
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>194</b>	31	116	180

**Depot:** VOLVO8531  
**Unique No:** 10660737  
**Signed:** Wes Davis  
**Report Date:** 26 Sep 2023



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## GRAPHS

