



# CONSTRUCTION EQUIPMENT

## 495 VOLVO L90H 624946 - DIESEL ENGINE



**Sample No:** VCP391406  
**Oil Type:** GULF 10W30  
**Job No:** 495



### SAMPLE INFORMATION

Sample Number	<b>VCP391406</b>	VCP263721	VCP281763	---
Sample Date	<b>08 Feb 2024</b>	09 Mar 2021	22 Oct 2020	---
Machine Hours	<b>4775</b>	1528	2023	---
Oil Hours	<b>781</b>	590	0	---
Oil Changed	<b>N/A</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**SODERBERG CONSTRUCTION**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>11.3</b>	13.8	13.2	---
Base Number (BN)	mg KOH/g	<b>6.6</b>	---	---	---
Oxidation (PA)	%	<b>64</b>	82	79	---

### 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.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.7</b>	0.4	0.3	---
Nitration (PA)	%	<b>86</b>	84	67	---
Sulfation (PA)	%	<b>60</b>	61	61	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>8</b>	9	7	---
Sodium	ppm	<b>4</b>	4	3	---
Potassium	ppm	<b>0</b>	0	4	---



### WEAR METALS

Iron	ppm	<b>31</b>	31	13	---
Copper	ppm	<b>2</b>	3	<1	---
Lead	ppm	<b>0</b>	1	0	---
Tin	ppm	<b>1</b>	0	0	---
Aluminum	ppm	<b>16</b>	22	8	---
Chromium	ppm	<b>1</b>	3	1	---
Molybdenum	ppm	<b>75</b>	35	39	---
Nickel	ppm	<b>0</b>	<1	1	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	1	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>2225</b>	1780	1715	---
Magnesium	ppm	<b>49</b>	644	572	---
Zinc	ppm	<b>1048</b>	942	850	---
Phosphorus	ppm	<b>920</b>	819	767	---
Barium	ppm	<b>0</b>	0	<1	---
Boron	ppm	<b>28</b>	26	31	---

**Depot:** SODCAR  
**Unique No:** 10896428  
**Signed:** Wes Davis  
**Report Date:** 25 Feb 2024



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## GRAPHS

