



# CONSTRUCTION EQUIPMENT

## 21 VOLVO L90H 25852 - DIESEL ENGINE



**Sample No:** VCP366253  
**Oil Type:** MOBIL DELVAC 1300 SUPER15W40  
**Job No:** 21



### SAMPLE INFORMATION

Sample Number	<b>VCP366253</b>	VCP366256	VCP324030	VCP325021
Sample Date	<b>02 Jun 2023</b>	01 May 2023	15 Mar 2023	03 Feb 2023
Machine Hours	<b>9128</b>	8672	8048	7548
Oil Hours	<b>500</b>	400	400	800
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL



**PLEASANT RIVER LUMBER**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.0</b>	13.0	13.1	13.1
Base Number (BN)	mg KOH/g	<b>9.8</b>	9.5	8.6	9.8
Oxidation (PA)	%	<b>54</b>	55	51	58



### CONTAMINATION

Soot %	%	<b>0.4</b>	0.4	0.3	0.4
Nitration (PA)	%	<b>55</b>	58	52	64
Sulfation (PA)	%	<b>50</b>	52	47	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	3	4	3
Sodium	ppm	<b>2</b>	2	1	1
Potassium	ppm	<b>0</b>	<1	2	0



### WEAR METALS

Iron	ppm	<b>7</b>	8	8	10
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>0</b>	0	1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>3</b>	<1	2	3
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>61</b>	61	60	62
Nickel	ppm	<b>0</b>	0	1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1081</b>	1094	1037	1106
Magnesium	ppm	<b>985</b>	958	965	967
Zinc	ppm	<b>1267</b>	1273	1289	1273
Phosphorus	ppm	<b>1036</b>	1016	1046	1028
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>1</b>	2	3	<1

### 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:** PLEDOV  
**Unique No:** 10631733  
**Signed:** Don Baldrige  
**Report Date:** 06 Sep 2023

**VOLVO** GRAPHS

