



# CONSTRUCTION EQUIPMENT

## 21 VOLVO L90H 25852 - DIESEL ENGINE



**Sample No:** VCP313378  
**Oil Type:** MOBIL DELVAC 1300 SUPER15W40  
**Job No:** 21



### SAMPLE INFORMATION

Sample Number	<b>VCP313378</b>	VCP405784	VCP366253	VCP366256
Sample Date	<b>19 Sep 2023</b>	25 Jul 2023	02 Jun 2023	01 May 2023
Machine Hours	<b>10633</b>	9801	9128	8672
Oil Hours	<b>500</b>	500	500	400
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**PLEASANT RIVER LUMBER**  
 PO BOX 68  
 DOVER FOXCROFT, ME  
 US 04426  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.2	13.0	13.0
Base Number (BN)	mg KOH/g	<b>9.4</b>	9.8	9.8	9.5
Oxidation (PA)	%	<b>61</b>	57	54	55

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.9</b>	0.6	0.4	0.4
Nitration (PA)	%	<b>73</b>	63	55	58
Sulfation (PA)	%	<b>56</b>	53	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>	3	3	3
Sodium	ppm	<b>0</b>	0	2	2
Potassium	ppm	<b>0</b>	<1	0	<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 acceptable for the time in service.

### WEAR METALS

Iron	ppm	<b>12</b>	7	7	8
Copper	ppm	<b>&lt;1</b>	<1	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>4</b>	3	3	<1
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>59</b>	57	61	61
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	0
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1158</b>	1142	1081	1094
Magnesium	ppm	<b>1035</b>	1036	985	958
Zinc	ppm	<b>1248</b>	1239	1267	1273
Phosphorus	ppm	<b>1115</b>	1137	1036	1016
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	1	2

**Depot:** PLEDOV  
**Unique No:** 10790947  
**Signed:** Don Baldrige  
**Report Date:** 19 Dec 2023



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## VOLVO GRAPHS

