



# CONSTRUCTION EQUIPMENT

## 18 VOLVO L90H 25606 - DIESEL ENGINE



**Sample No:** VCP406862  
**Oil Type:** MOBIL DELVAC 1300 SUPER15W40  
**Job No:** 18



### SAMPLE INFORMATION

Sample Number	<b>VCP406862</b>	VCP324029	VCP387308	VCP325022
Sample Date	<b>07 Jul 2023</b>	01 May 2023	09 Mar 2023	18 Jan 2023
Machine Hours	<b>12698</b>	12012	11597	11015
Oil Hours	<b>500</b>	450	500	500
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>13.1</b>	13.1	13.5	13.3
Base Number (BN)	mg KOH/g	<b>9.1</b>	9.5	8.5	9.8
Oxidation (PA)	%	<b>59</b>	61	60	60



### CONTAMINATION

Soot %	%	<b>0.3</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>65</b>	63	65	64
Sulfation (PA)	%	<b>52</b>	54	49	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	2
Sodium	ppm	<b>2</b>	1	1	<1
Potassium	ppm	<b>&lt;1</b>	1	2	0



### WEAR METALS

Iron	ppm	<b>7</b>	6	7	6
Copper	ppm	<b>&lt;1</b>	<1	0	<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	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>60</b>	61	63	64
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	0	0



### ADDITIVES

Calcium	ppm	<b>1089</b>	1122	1076	1138
Magnesium	ppm	<b>1003</b>	979	1024	1011
Zinc	ppm	<b>1301</b>	1291	1348	1309
Phosphorus	ppm	<b>1037</b>	1028	1090	1059
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	3	2	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:** 10631731  
**Signed:** Don Baldrige  
**Report Date:** 06 Sep 2023

**VOLVO** **GRAPHS**

