



# CONSTRUCTION EQUIPMENT

## VOLVO L90G 617476 - DIESEL ENGINE



**Sample No:** VCP384808  
**Oil Type:** DRYDENE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP384808	---	---	---
Sample Date	16 Feb 2024	---	---	---
Machine Hours	6000	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

**DH FUNK AND SONS LLC**  
 3995 CONTINENTAL DRIVE  
 COLUMBIA, PA  
 US 17512  
 Contact: GARY SHEPHERD  
 GSHEPHERD@DHFUNK.COM  
 T:  
 F:



### OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	---	---	---
Base Number (BN)	mg KOH/g	█ 8.4	---	---	---
Oxidation (PA)	%	58	---	---	---

### Diagnosis

We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Aluminum ppm levels are abnormal. Piston wear is indicated. Test for glycol is positive. There is a high concentration of glycol present in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	83	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	● 0.12	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 9	---	---	---
Sodium	ppm	▲ 807	---	---	---
Potassium	ppm	▲ 394	---	---	---



### WEAR METALS

Iron	ppm	█ 19	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ 8	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 17	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 87	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	█ 1650	---	---	---
Magnesium	ppm	█ 369	---	---	---
Zinc	ppm	█ 949	---	---	---
Phosphorus	ppm	█ 818	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 8	---	---	---

**Depot:** DHFCOL  
**Unique No:** 10896430  
**Signed:** Wes Davis  
**Report Date:** 26 Feb 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

