



# CONSTRUCTION EQUIPMENT

SWA395451-10 VOLVO L90G 617213 - DIESEL ENGINE



**Sample No:** VCP441762  
**Oil Type:** VOLVO VDS-4.5 Premium Motor Oil 15W40  
**Job No:** SWA395451-10



## SAMPLE INFORMATION

Sample Number	<b>VCP441762</b>	VCP183474	VCP303746	VCP238301
Sample Date	<b>27 Oct 2023</b>	18 Oct 2021	14 Jun 2021	10 Aug 2020
Machine Hours	<b>12029</b>	11096	10532	10005
Oil Hours	<b>0</b>	500	500	0
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

IAA - INSURANCE AUTO AUCTIONS - ROCK TAVERN  
 39 STONE CASTLE RD  
 ROCK TAVERN, NY  
 US 12575  
 Contact: SERVICE MANAGER

## OIL CONDITION

Visc @ 100°C	cSt	<b>12.4</b>	12.5	12.7	13.2
Base Number (BN)	mg KOH/g	<b>10.3</b>	---	---	---
Oxidation (PA)	%	<b>82</b>	77	76	67

T:  
F:

## 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	%	---	0.112	---	---
Soot %	%	<b>0.2</b>	0.1	0.3	0.4
Nitration (PA)	%	<b>57</b>	53	72	78
Sulfation (PA)	%	<b>60</b>	61	61	58
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>8</b>	6	4	5
Sodium	ppm	<b>1</b>	2	2	3
Potassium	ppm	<b>0</b>	0	<1	0

## WEAR METALS

Iron	ppm	<b>10</b>	4	10	9
Copper	ppm	<b>0</b>	<1	<1	<1
Lead	ppm	<b>0</b>	1	<1	0
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>4</b>	2	5	5
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>38</b>	43	56	42
Nickel	ppm	<b>0</b>	<1	0	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1

## ADDITIVES

Calcium	ppm	<b>1566</b>	1635	1642	1548
Magnesium	ppm	<b>489</b>	448	570	615
Zinc	ppm	<b>1069</b>	1040	1012	868
Phosphorus	ppm	<b>924</b>	823	864	783
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>55</b>	81	95	78

**Depot:** INSROC  
**Unique No:** 10725443  
**Signed:** Wes Davis  
**Report Date:** 03 Nov 2023



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## VOLVO GRAPHS

