



# CONSTRUCTION EQUIPMENT

SPM634941 VOLVO L90H 626515 - DIESEL ENGINE



**Sample No:** VCP429749  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM634941



## SAMPLE INFORMATION

Sample Number	<b>VCP429749</b>	VCP415094	VCP423398	VCP395831
Sample Date	<b>29 Nov 2023</b>	19 Oct 2023	07 Jun 2023	06 Feb 2023
Machine Hours	<b>2034</b>	1804	527	527
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

IAA - INSURANCE AUTO AUCTIONS - AURORA  
 280 E SULLIVAN  
 AURORA, IL  
 US 60505  
 Contact: Service Manager

## OIL CONDITION

Visc @ 100°C	cSt	<b>13.8</b>	15.0	14.9	13.0
Base Number (BN)	mg KOH/g	<b>9.8</b>	9.8	8.9	10.7
Oxidation (PA)	%	<b>61</b>	57	70	76

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	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.2	0.7	0.5
Nitration (PA)	%	<b>61</b>	48	69	59
Sulfation (PA)	%	<b>54</b>	51	57	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	5	8	15
Sodium	ppm	<b>0</b>	4	2	4
Potassium	ppm	<b>&lt;1</b>	2	2	0

## WEAR METALS

Iron	ppm	<b>10</b>	7	30	33
Copper	ppm	<b>1</b>	<1	3	8
Lead	ppm	<b>0</b>	0	<1	2
Tin	ppm	<b>&lt;1</b>	<1	3	4
Aluminum	ppm	<b>2</b>	4	13	52
Chromium	ppm	<b>&lt;1</b>	<1	3	6
Molybdenum	ppm	<b>57</b>	53	60	42
Nickel	ppm	<b>0</b>	<1	<1	<1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	1	4
Vanadium	ppm	<b>0</b>	<1	<1	0

## ADDITIVES

Calcium	ppm	<b>1058</b>	953	1161	1603
Magnesium	ppm	<b>1006</b>	900	958	594
Zinc	ppm	<b>1316</b>	1139	1342	1166
Phosphorus	ppm	<b>1007</b>	950	1074	944
Barium	ppm	<b>0</b>	0	0	1
Boron	ppm	<b>&lt;1</b>	0	5	55

**Depot:** INSAUR  
**Unique No:** 10792853  
**Signed:** Wes Davis  
**Report Date:** 19 Dec 2023



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## GRAPHS

