



# CONSTRUCTION EQUIPMENT

SPM689367 VOLVO L90H 624611 - DIESEL ENGINE



**Sample No:** VCP437365  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM689367



## SAMPLE INFORMATION

Sample Number	<b>VCP437365</b>	VCP415265	VCP405709	VCP389837
Sample Date	<b>05 Apr 2024</b>	15 Aug 2023	22 Mar 2023	28 Sep 2022
Machine Hours	<b>8707</b>	7131	7049	6426
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>14.0</b>	14.6	13.3	14.3
Base Number (BN)	mg KOH/g	<b>8.8</b>	8.4	8.2	10.6
Oxidation (PA)	%	<b>66</b>	70	70	65

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>0.4</b>	0.5	0.4	0.5
Nitration (PA)	%	<b>75</b>	84	82	70
Sulfation (PA)	%	<b>54</b>	57	56	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>2</b>	4	4	3
Sodium	ppm	<b>1</b>	2	2	0
Potassium	ppm	<b>0</b>	<1	<1	2



## WEAR METALS

Iron	ppm	<b>7</b>	11	13	7
Copper	ppm	<b>0</b>	2	<1	<1
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>&lt;1</b>	2	3	3
Chromium	ppm	<b>0</b>	1	1	<1
Molybdenum	ppm	<b>65</b>	68	61	63
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>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	<1



## ADDITIVES

Calcium	ppm	<b>1230</b>	1200	1105	1094
Magnesium	ppm	<b>1147</b>	1118	955	959
Zinc	ppm	<b>1377</b>	1463	1255	1281
Phosphorus	ppm	<b>1208</b>	1160	1041	1066
Barium	ppm	<b>0</b>	0	2	0
Boron	ppm	<b>0</b>	<1	0	1

**Depot:** INSAUR  
**Unique No:** 10977076  
**Signed:** Wes Davis  
**Report Date:** 15 Apr 2024



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## GRAPHS

