



# CONSTRUCTION EQUIPMENT

S50404017 VOLVO L90H 625460 - DIESEL ENGINE



**Sample No:** VCP453862  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** S50404017



## SAMPLE INFORMATION

Sample Number	<b>VCP453862</b>	VCP434535	VCP400413	VCP381151
Sample Date	<b>11 Jul 2024</b>	05 Dec 2023	23 Feb 2023	04 Jan 2023
Machine Hours	<b>7486</b>	6500	4985	6471
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 - RICHIE BROS  
 2 WESTBROOK CORPORATE CTR STE 500  
 WESTCHESTER, IL  
 US 60154  
 Contact: BILLY BUTLER



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	12.8	13.2	12.8
Base Number (BN)	mg KOH/g	<b>9.9</b>	10.3	10.2	10.5
Oxidation (PA)	%	<b>90</b>	83	88	79

T: (404)275-6868  
 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>	0.5	0.2	0.2
Nitration (PA)	%	<b>78</b>	58	63	53
Sulfation (PA)	%	<b>64</b>	62	63	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>7</b>	5	9	6
Sodium	ppm	<b>1</b>	0	3	1
Potassium	ppm	<b>2</b>	2	<1	1



## WEAR METALS

Iron	ppm	<b>8</b>	7	11	5
Copper	ppm	<b>&lt;1</b>	2	2	<1
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	1	<1
Aluminum	ppm	<b>4</b>	2	3	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>42</b>	43	39	41
Nickel	ppm	<b>&lt;1</b>	<1	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>&lt;1</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



## ADDITIVES

Calcium	ppm	<b>1746</b>	1682	1684	1688
Magnesium	ppm	<b>524</b>	515	487	481
Zinc	ppm	<b>1185</b>	1114	1091	1128
Phosphorus	ppm	<b>1017</b>	990	869	965
Barium	ppm	<b>&lt;1</b>	12	0	0
Boron	ppm	<b>29</b>	42	27	61

**Depot:** INSWES  
**Unique No:** 1112778  
**Signed:** Wes Davis  
**Report Date:** 18 Jul 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

