



# CONSTRUCTION EQUIPMENT

X43200 IAA VOLVO L90H 625925 - DIESEL ENGINE



**Sample No:** VCP391053  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X43200 IAA



## SAMPLE INFORMATION

Sample Number	<b>VCP391053</b>	VCP391086	VCP341424	VCP349088
Sample Date	<b>04 Apr 2023</b>	25 Oct 2022	10 Aug 2022	06 May 2022
Machine Hours	<b>3572</b>	2610	2124	1559
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	N/A	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.3</b>	■ 13.4	■ 14.04	■ 13.5
Base Number (BN)	mg KOH/g	<b>■ 10.5</b>	■ 12.0	■ 11.9	■ 10.5
Oxidation (PA)	%	<b>84</b>	90	90	81



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>■ 0.5</b>	■ 0.4	■ 0.5	■ 0.3
Nitration (PA)	%	<b>73</b>	69	76	61
Sulfation (PA)	%	<b>63</b>	67	66	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>■ 1.5</b>	<1.0	■ 0.3	<1.0
Silicon	ppm	<b>■ 9</b>	■ 11	■ 6	■ 5
Sodium	ppm	<b>■ 5</b>	■ 2	■ 0	■ 2
Potassium	ppm	<b>■ &lt;1</b>	■ 0	■ <1	■ 1



## WEAR METALS

Iron	ppm	<b>■ 63</b>	■ 65	■ 74	■ 59
Copper	ppm	<b>■ 0</b>	■ <1	■ <1	■ <1
Lead	ppm	<b>■ 0</b>	■ <1	■ <1	■ 0
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Aluminum	ppm	<b>■ 6</b>	■ 4	■ 4	■ 4
Chromium	ppm	<b>■ 1</b>	■ 4	■ 2	■ 2
Molybdenum	ppm	<b>■ 42</b>	■ 43	■ 49	■ 39
Nickel	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>■ 0</b>	0	0	0
Manganese	ppm	<b>■ 1</b>	■ 1	■ 1	■ 1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>■ 1615</b>	■ 1797	■ 1766	■ 1767
Magnesium	ppm	<b>■ 526</b>	■ 516	■ 536	■ 547
Zinc	ppm	<b>■ 1144</b>	■ 1118	■ 1182	■ 1253
Phosphorus	ppm	<b>■ 872</b>	■ 915	■ 979	■ 1011
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 31</b>	■ 31	■ 24	■ 36

## Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLV00129  
**Unique No:** 10415392  
**Signed:** Don Baldrige  
**Report Date:** 11 Apr 2023



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## GRAPHS

