



# CONSTRUCTION EQUIPMENT

## SW-27276-2 IAA VOLVO L90H 626380 - DIESEL ENGINE



**Sample No:** VCP435860  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SW-27276-2 IAA



### SAMPLE INFORMATION

Sample Number	<b>VCP435860</b>	VCP414375	VCP400938	VCP399621
Sample Date	<b>13 Dec 2023</b>	29 Aug 2023	01 May 2023	07 Feb 2023
Machine Hours	<b>2317</b>	1722	1040	546
Oil Hours	<b>500</b>	500	500	546
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	12.1	13.3	12.6
Base Number (BN)	mg KOH/g	<b>9.3</b>	9.6	8.7	9.9
Oxidation (PA)	%	<b>58</b>	63	58	73

### 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 acceptable for the time in service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.3	0.2	0.2
Nitration (PA)	%	<b>56</b>	58	50	54
Sulfation (PA)	%	<b>53</b>	55	48	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	1.2	<1.0	<1.0
Silicon	ppm	<b>4</b>	5	5	12
Sodium	ppm	<b>1</b>	2	<1	3
Potassium	ppm	<b>1</b>	<1	<1	8



### WEAR METALS

Iron	ppm	<b>9</b>	15	13	31
Copper	ppm	<b>&lt;1</b>	1	<1	5
Lead	ppm	<b>0</b>	<1	0	2
Tin	ppm	<b>1</b>	1	1	2
Aluminum	ppm	<b>3</b>	3	3	11
Chromium	ppm	<b>&lt;1</b>	1	1	2
Molybdenum	ppm	<b>63</b>	59	61	30
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	<1	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	3
Vanadium	ppm	<b>0</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>1039</b>	1170	1275	1077
Magnesium	ppm	<b>929</b>	981	939	470
Zinc	ppm	<b>1235</b>	1255	1210	825
Phosphorus	ppm	<b>1019</b>	992	1028	689
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>6</b>	3	15	36

**Depot:** VOLVO8770  
**Unique No:** 10795624  
**Signed:** Don Baldrige  
**Report Date:** 21 Dec 2023



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## GRAPHS

