



# CONSTRUCTION EQUIPMENT

## SW1022514 IAA 5 VOLVO L90H 625764 - DIESEL ENGINE



**Sample No:** VCP425242  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SW1022514 IAA 5



### SAMPLE INFORMATION

Sample Number	<b>VCP425242</b>	VCP416981	VCP409771	VCP379818
Sample Date	<b>18 Oct 2023</b>	03 Aug 2023	11 May 2023	13 Feb 2023
Machine Hours	<b>6581</b>	6094	5478	4911
Oil Hours	<b>0</b>	0	0	0
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>13.5</b>	13.3	13.3	13.9
Base Number (BN)	mg KOH/g	<b>9.6</b>	9.3	9.4	9.0
Oxidation (PA)	%	<b>69</b>	75	78	67



### CONTAMINATION

Soot %	%	<b>0.7</b>	0.8	0.7	0.8
Nitration (PA)	%	<b>68</b>	75	71	75
Sulfation (PA)	%	<b>57</b>	60	61	56
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	4	4	4
Sodium	ppm	<b>0</b>	2	2	<1
Potassium	ppm	<b>2</b>	<1	<1	2

### 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.



### WEAR METALS

Iron	ppm	<b>10</b>	14	13	21
Copper	ppm	<b>1</b>	<1	1	2
Lead	ppm	<b>&lt;1</b>	1	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	3	<1	2
Chromium	ppm	<b>&lt;1</b>	<1	<1	1
Molybdenum	ppm	<b>58</b>	59	53	63
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1212</b>	1447	1420	1147
Magnesium	ppm	<b>803</b>	887	814	937
Zinc	ppm	<b>1210</b>	1353	1250	1267
Phosphorus	ppm	<b>913</b>	1102	998	1043
Barium	ppm	<b>10</b>	0	0	0
Boron	ppm	<b>8</b>	10	14	2

**Depot:** VOLVO6174  
**Unique No:** 10711184  
**Signed:** Jonathan Hester  
**Report Date:** 26 Oct 2023



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## GRAPHS

