



# CONSTRUCTION EQUIPMENT

## X13899 IAA VOLVO L90G 617336 - DIESEL ENGINE



**Sample No:** VCP399015  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X13899 IAA



### SAMPLE INFORMATION

Sample Number	<b>VCP399015</b>	VCP324683	VCP254065	VCP194779
Sample Date	<b>14 Feb 2024</b>	29 Jul 2021	16 Oct 2020	24 Oct 2018
Machine Hours	<b>8503</b>	8007	6996	6220
Oil Hours	<b>500</b>	1000	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	13.3	13.1	13.2
Base Number (BN)	mg KOH/g	<b>9.8</b>	---	---	---
Oxidation (PA)	%	<b>77</b>	65	88	80



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.3	0.2	0.7
Nitration (PA)	%	<b>67</b>	85	67	60
Sulfation (PA)	%	<b>58</b>	61	61	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	3	7	8
Sodium	ppm	<b>1</b>	2	2	4
Potassium	ppm	<b>2</b>	2	0	4



### WEAR METALS

Iron	ppm	<b>14</b>	19	28	50
Copper	ppm	<b>2</b>	3	2	1
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>▲ 27</b>	6	▲ 18	11
Chromium	ppm	<b>&lt;1</b>	<1	2	<1
Molybdenum	ppm	<b>33</b>	6	44	40
Nickel	ppm	<b>0</b>	<1	0	<1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	2
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1444</b>	1405	1730	1831
Magnesium	ppm	<b>488</b>	681	503	526
Zinc	ppm	<b>1021</b>	782	901	938
Phosphorus	ppm	<b>904</b>	659	763	729
Barium	ppm	<b>10</b>	0	0	0
Boron	ppm	<b>34</b>	31	47	48

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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.

**Depot:** VOLVO6241  
**Unique No:** 10885585  
**Signed:** Don Baldrige  
**Report Date:** 20 Feb 2024

**VOLVO** **GRAPHS**

