



# CONSTRUCTION EQUIPMENT

## 687904 ATLAS ORGANIC VOLVO L70H 624676 - DIESEL ENGINE



**Sample No:** VCP437835  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 687904 ATLAS ORGANIC



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### SAMPLE INFORMATION

Sample Number	<b>VCP437835</b>	VCP440766	VCP411612	VCP355082
Sample Date	<b>15 Mar 2024</b>	29 Nov 2023	14 Aug 2023	20 Jun 2022
Machine Hours	<b>3027</b>	0	2061	428
Oil Hours	<b>500</b>	0	500	200
Oil Changed	<b>Changed</b>	Changed	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	NORMAL



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.3</b>	13.1	13.4	13.5
Base Number (BN)	mg KOH/g	<b>10.0</b>	10.3	8.1	10.2
Oxidation (PA)	%	<b>78</b>	78	59	59



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.3	0.4	0.2
Nitration (PA)	%	<b>64</b>	65	66	50
Sulfation (PA)	%	<b>59</b>	58	52	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	6	6	5
Sodium	ppm	<b>2</b>	<1	2	<1
Potassium	ppm	<b>1</b>	0	0	1



### WEAR METALS

Iron	ppm	<b>94</b>	112	207	142
Copper	ppm	<b>1</b>	1	3	1
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	1	<1
Aluminum	ppm	<b>2</b>	2	<1	2
Chromium	ppm	<b>2</b>	2	3	2
Molybdenum	ppm	<b>45</b>	44	64	55
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>2</b>	2	3	2
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>1866</b>	1761	1948	1660
Magnesium	ppm	<b>606</b>	493	438	397
Zinc	ppm	<b>1275</b>	1138	1281	1143
Phosphorus	ppm	<b>1031</b>	970	1058	953
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>28</b>	21	0	9

### 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.

**Depot:** VOLVO0093  
**Unique No:** 10970498  
**Signed:** Wes Davis  
**Report Date:** 12 Apr 2024



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## GRAPHS

