



# CONSTRUCTION EQUIPMENT

ATLAS ORGANICS VOLVO L70H 624676 - DIESEL ENGINE



**Sample No:** VCP437545  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** ATLAS ORGANICS



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## SAMPLE INFORMATION

Sample Number	<b>VCP437545</b>	VCP437835	VCP440766	VCP411612
Sample Date	<b>21 Jun 2024</b>	15 Mar 2024	29 Nov 2023	14 Aug 2023
Machine Hours	<b>3462</b>	3027	0	2061
Oil Hours	<b>0</b>	500	0	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL



## OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	13.3	13.1	13.4
Base Number (BN)	mg KOH/g	<b>9.6</b>	10.0	10.3	8.1
Oxidation (PA)	%	<b>74</b>	78	78	59



## CONTAMINATION

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



## WEAR METALS

Iron	ppm	<b>88</b>	94	112	▲ 207
Copper	ppm	<b>&lt;1</b>	1	1	3
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>0</b>	<1	<1	1
Aluminum	ppm	<b>2</b>	2	2	<1
Chromium	ppm	<b>1</b>	2	2	3
Molybdenum	ppm	<b>42</b>	45	44	64
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	2	2	3
Vanadium	ppm	<b>0</b>	<1	0	<1



## ADDITIVES

Calcium	ppm	<b>1545</b>	1866	1761	1948
Magnesium	ppm	<b>555</b>	606	493	438
Zinc	ppm	<b>1143</b>	1275	1138	1281
Phosphorus	ppm	<b>875</b>	1031	970	1058
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>22</b>	28	21	0

## 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:** 11098954  
**Signed:** Wes Davis  
**Report Date:** 27 Jun 2024

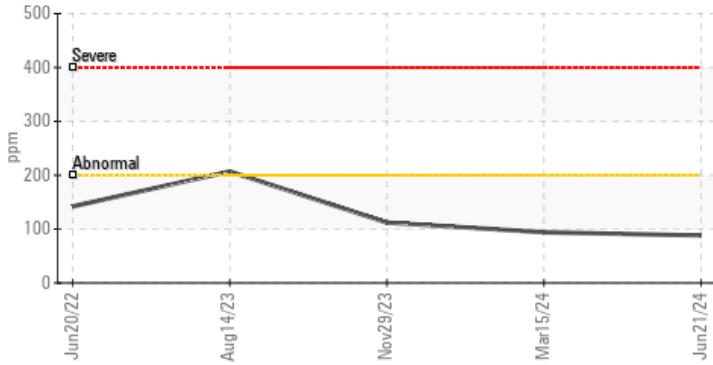


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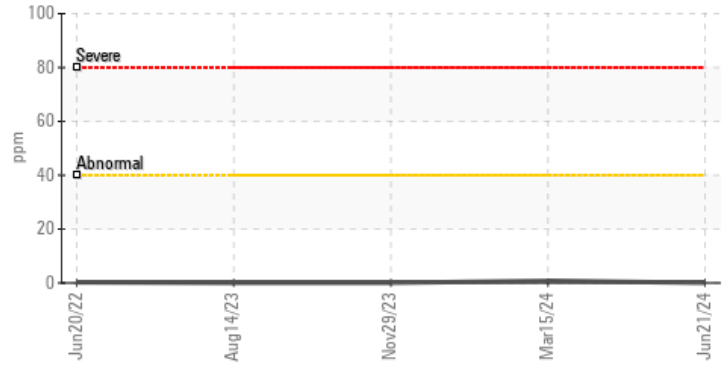


## GRAPHS

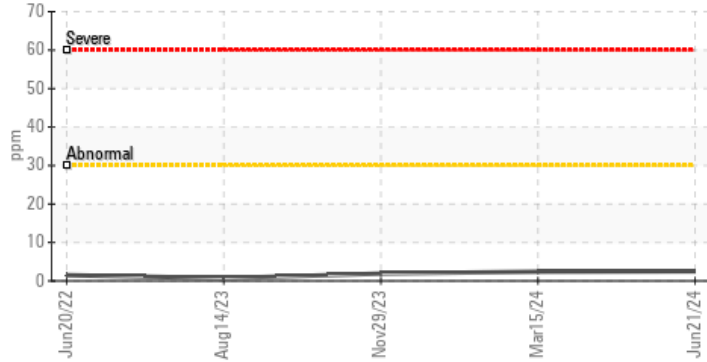
### Iron (ppm)



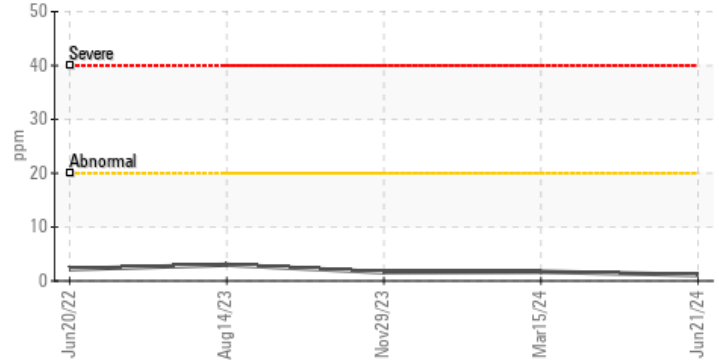
### Lead (ppm)



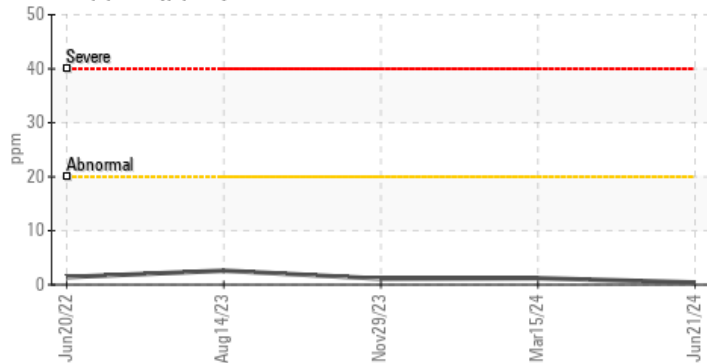
### Aluminum (ppm)



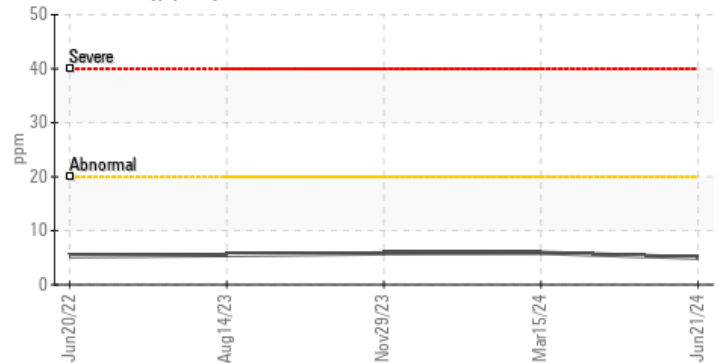
### Chromium (ppm)



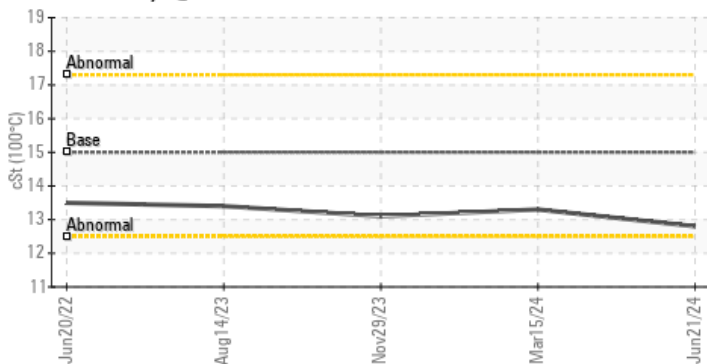
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

