



# CONSTRUCTION EQUIPMENT

## SW-30417-2 AMCOR VOLVO L110H 632720 - DIESEL ENGINE



**Sample No:** VCP324501  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SW-30417-2 AMCOR



### SAMPLE INFORMATION

Sample Number	VCP324501	VCP438069	---	---
Sample Date	22 Feb 2024	11 Jan 2024	---	---
Machine Hours	1792	1250	---	---
Oil Hours	500	1250	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

**ARNOLD MACHINERY COMPANY**  
 2975 WEST 2100 SOUTH  
 SALT LAKE CITY, UT  
 US 84119  
 Contact: JUSTIN BENCH  
 JUSTIN.BENCH@ARNOLDMACHINERY.COM  
 T: (801)698-5639  
 F: (801)975-9434



### OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 13.1	---	---
Base Number (BN)	mg KOH/g	█ 8.1	█ 9.1	---	---
Oxidation (PA)	%	51	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 suitable for further service.



### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.3	█ 0.4	---	---
Nitration (PA)	%	58	63	---	---
Sulfation (PA)	%	49	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 4	█ 12	---	---
Sodium	ppm	█ <1	█ 4	---	---
Potassium	ppm	█ 1	█ 2	---	---



### WEAR METALS

Iron	ppm	█ 11	█ 37	---	---
Copper	ppm	█ 7	█ 32	---	---
Lead	ppm	█ 2	█ 5	---	---
Tin	ppm	█ 1	█ 4	---	---
Aluminum	ppm	█ 6	█ 25	---	---
Chromium	ppm	█ <1	█ 2	---	---
Molybdenum	ppm	█ 41	█ 44	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ <1	█ <1	---	---
Manganese	ppm	█ <1	█ 2	---	---
Vanadium	ppm	<1	<1	---	---



### ADDITIVES

Calcium	ppm	█ 1505	█ 1482	---	---
Magnesium	ppm	█ 593	729	---	---
Zinc	ppm	█ 1193	█ 1242	---	---
Phosphorus	ppm	█ 958	█ 1064	---	---
Barium	ppm	█ 0	█ 12	---	---
Boron	ppm	█ 16	█ 28	---	---

**Depot:** VOLVO8770  
**Unique No:** 10903176  
**Signed:** Wes Davis  
**Report Date:** 01 Mar 2024



# CONSTRUCTION EQUIPMENT

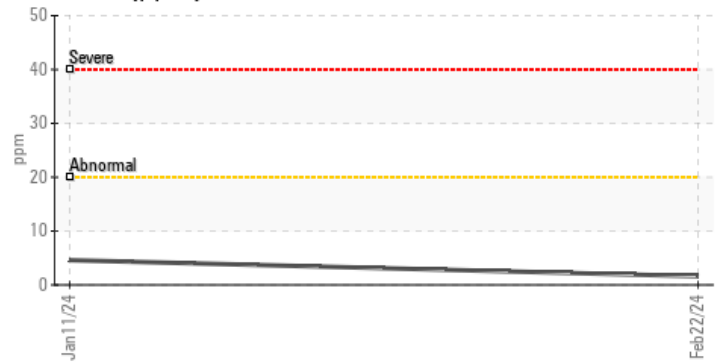


## GRAPHS

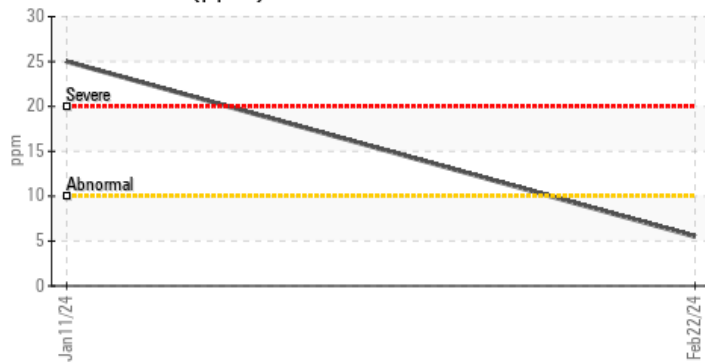
### Iron (ppm)



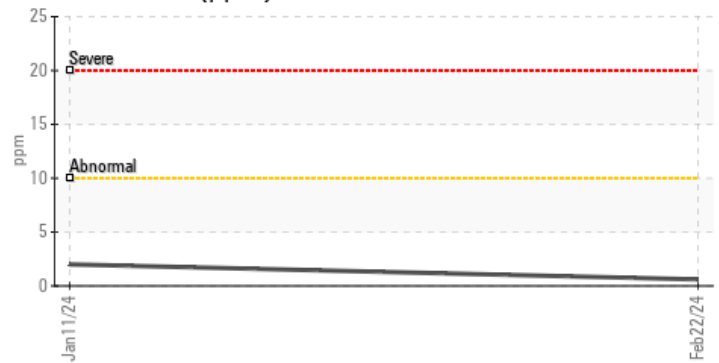
### Lead (ppm)



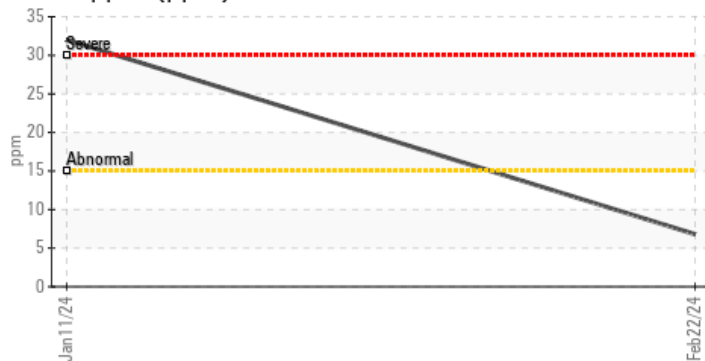
### Aluminum (ppm)



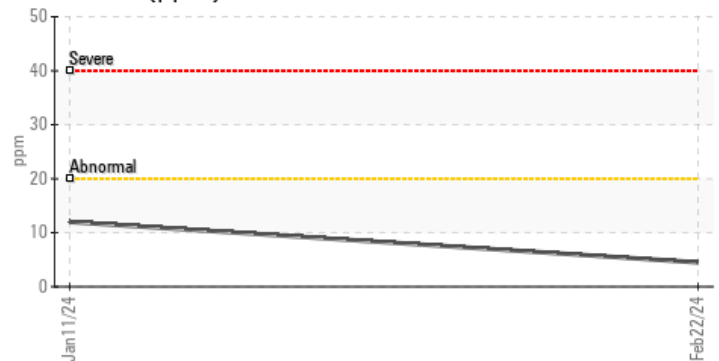
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

