



# CONSTRUCTION EQUIPMENT

SW0069093 CITY OF LA VOLVO EC480 3 14992 - DIESEL ENGINE



**Sample No:** VCP437804  
**Oil Type:** {unknown}  
**Job No:** SWO069093 CITY OF LA



**COWIN EQUIPMENT COMPANY INC - GUNTERSVILLE**  
15101 ALABAMA HWY 20  
MADISON, AL  
US 35756  
Contact: RANDY HARRIS  
RHARRIS@COWIN.COM  
T: (256)298-2322  
F: (256)355-5250



## SAMPLE INFORMATION

Sample Number	VCP437804	---	---	---
Sample Date	19 Jan 2024	---	---	---
Machine Hours	2030	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---



## OIL CONDITION

Visc @ 100°C	cSt	12.4	---	---	---
Base Number (BN)	mg KOH/g	9.0	---	---	---
Oxidation (PA)	%	81	---	---	---



## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	70	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	0.7	---	---	---
Silicon	ppm	11	---	---	---
Sodium	ppm	2	---	---	---
Potassium	ppm	2	---	---	---



## WEAR METALS

Iron	ppm	6	---	---	---
Copper	ppm	7	---	---	---
Lead	ppm	<1	---	---	---
Tin	ppm	1	---	---	---
Aluminum	ppm	2	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	47	---	---	---
Nickel	ppm	2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	1740	---	---	---
Magnesium	ppm	443	---	---	---
Zinc	ppm	1131	---	---	---
Phosphorus	ppm	974	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	38	---	---	---

## Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Fuel content negligible. 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:** COWMAD  
**Unique No:** 10869224  
**Signed:** Jonathan Hester  
**Report Date:** 08 Feb 2024

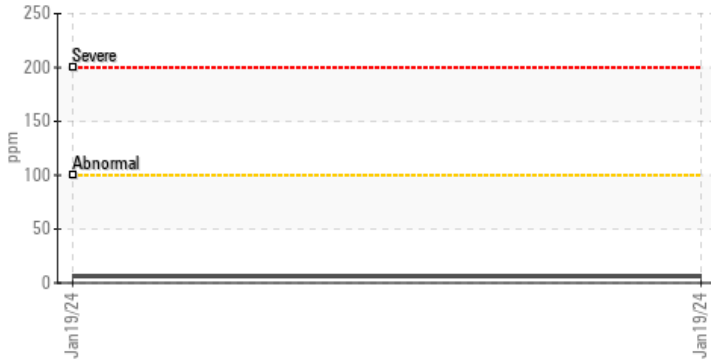


# CONSTRUCTION EQUIPMENT

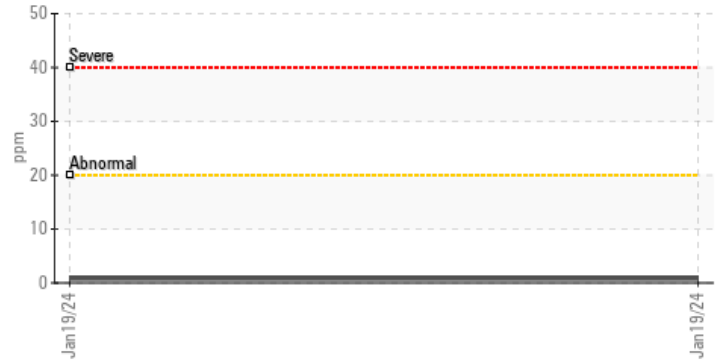


## GRAPHS

### Iron (ppm)



### Lead (ppm)



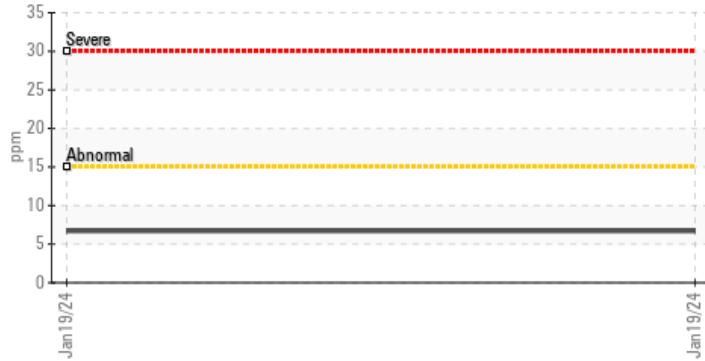
### Aluminum (ppm)



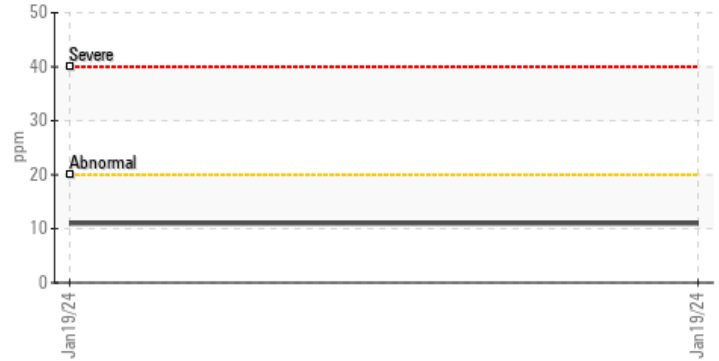
### Chromium (ppm)



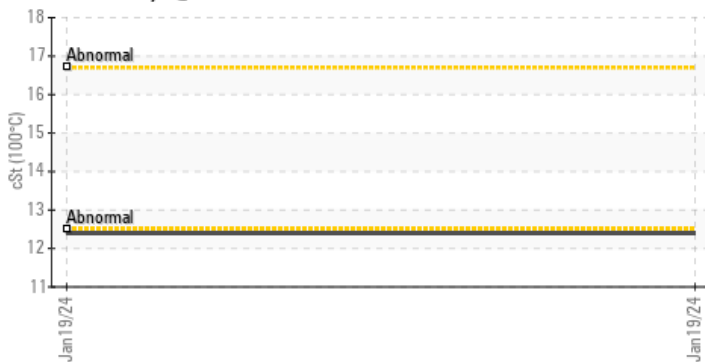
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

