



# CONSTRUCTION EQUIPMENT

SWO-072572 APAC VOLVO L150G 23109 - DIESEL ENGINE



**Sample No:** VCP443002  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-072572 APAC



**COWIN EQUIPMENT COMPANY**  
 2238 PINSON VALLEY PARKWAY  
 BIRMINGHAM, AL  
 US 35217  
 Contact: BRANTLY CLAY  
 bclay@cowin.com  
 T:  
 F: (205)856-2106



## SAMPLE INFORMATION

Sample Number	VCP443002	VCP416187	---	---
Sample Date	04 Jun 2024	19 Jul 2023	---	---
Machine Hours	4217	3037	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



## OIL CONDITION

Visc @ 100°C	cSt	█ 12.3	█ 13.0	---	---
Base Number (BN)	mg KOH/g	█ 9.7	█ 10.2	---	---
Oxidation (PA)	%	75	79	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	60	59	---	---
Sulfation (PA)	%	58	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 7	█ 11	---	---
Sodium	ppm	█ 2	█ 3	---	---
Potassium	ppm	█ 2	█ <1	---	---



## WEAR METALS

Iron	ppm	█ 11	█ 11	---	---
Copper	ppm	█ 3	█ <1	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 3	█ 2	---	---
Chromium	ppm	█ <1	█ 0	---	---
Molybdenum	ppm	█ 50	█ 45	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	<1	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	0	<1	---	---



## ADDITIVES

Calcium	ppm	█ 1631	█ 1715	---	---
Magnesium	ppm	█ 461	█ 553	---	---
Zinc	ppm	█ 1063	█ 1141	---	---
Phosphorus	ppm	█ 858	█ 946	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 50	█ 49	---	---

## 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:** VOLVO8528  
**Unique No:** 11073556  
**Signed:** Wes Davis  
**Report Date:** 12 Jun 2024



# CONSTRUCTION EQUIPMENT

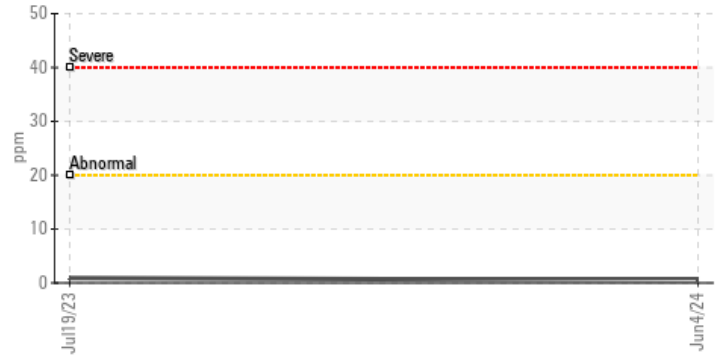


## GRAPHS

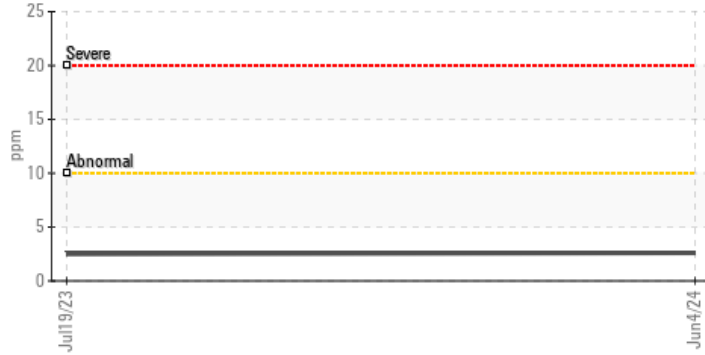
### Iron (ppm)



### Lead (ppm)



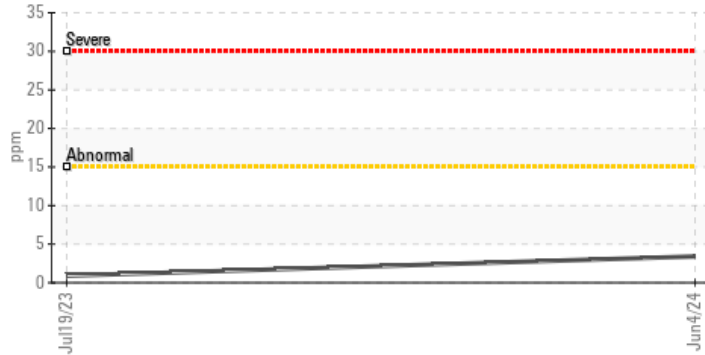
### Aluminum (ppm)



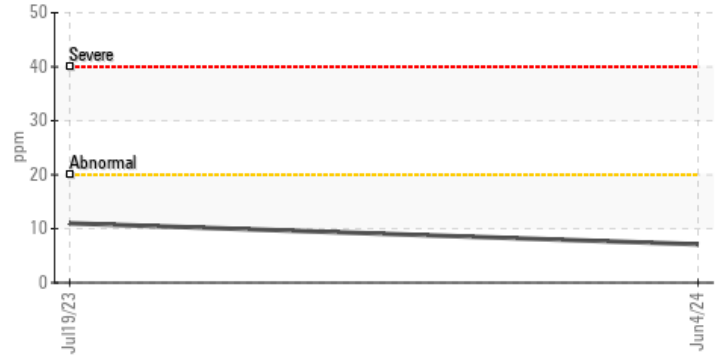
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

