



# CONSTRUCTION EQUIPMENT

C&L ASPHALT VOLVO DD120C 288091 - DIESEL ENGINE



**Sample No:** VCP354184  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** C&L ASPHALT



## SAMPLE INFORMATION

Sample Number	VCP354184	---	---	---
Sample Date	27 Jun 2023	---	---	---
Machine Hours	2025	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

**ARNOLD MACHINERY COMPANY**  
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## OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 8.8	---	---	---
Oxidation (PA)	%	79	---	---	---



## CONTAMINATION

Soot %	%	█ 0.4	---	---	---
Nitration (PA)	%	73	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 16	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 7	---	---	---

## Diagnosis

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Piston, ring and cylinder wear is indicated. 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 acceptable for the time in service.



## WEAR METALS

Iron	ppm	▲ 115	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	▲ 87	---	---	---
Chromium	ppm	█ 8	---	---	---
Molybdenum	ppm	█ 32	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 1895	---	---	---
Magnesium	ppm	█ 530	---	---	---
Zinc	ppm	█ 1223	---	---	---
Phosphorus	ppm	█ 983	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 64	---	---	---

**Depot:** VOLVO6174  
**Unique No:** 10545734  
**Signed:** Don Baldrige  
**Report Date:** 06 Jul 2023

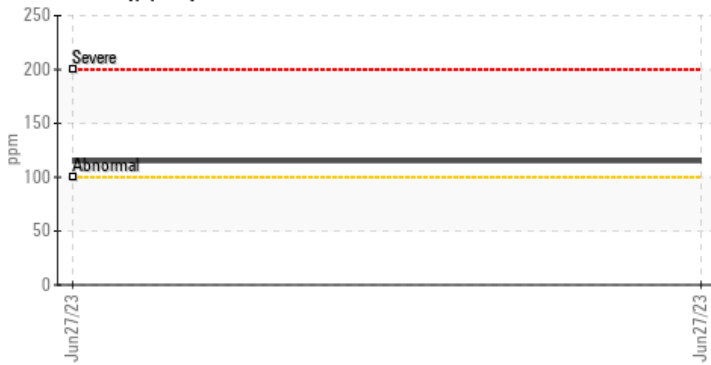


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## GRAPHS

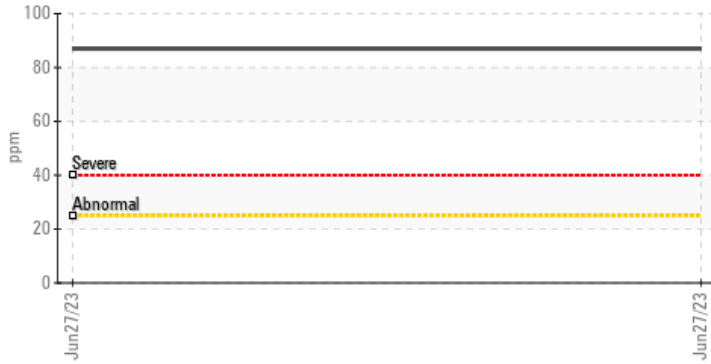
### ▲ Iron (ppm)



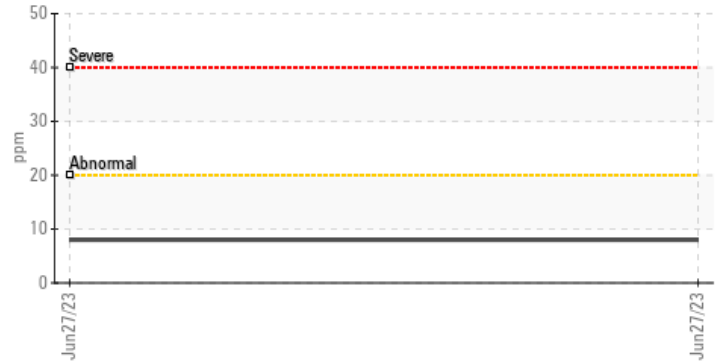
### Lead (ppm)



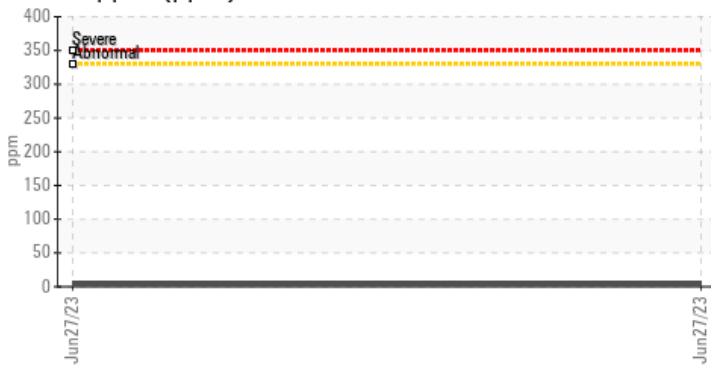
### ▲ Aluminum (ppm)



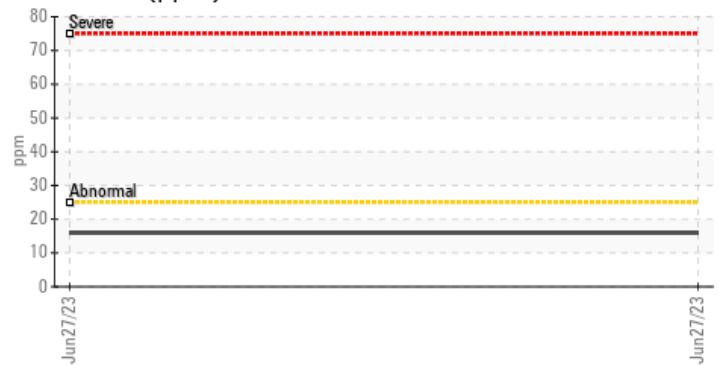
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

