



# CONSTRUCTION EQUIPMENT

## 306038-20 ELITE BLDR VOLVO ECR145EL 311383 - DIESEL ENGINE



**Sample No:** VCP418842  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 306038-20 ELITE BLDR



### SAMPLE INFORMATION

Sample Number	VCP418842	---	---	---
Sample Date	11 Jul 2023	---	---	---
Machine Hours	912	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: KENNY HANEY  
 khaney@flaglerce.com  
 T: (813)630-0077  
 F: (813)630-2233



### OIL CONDITION

Visc @ 100°C	cSt	█ 11.9	---	---	---
Base Number (BN)	mg KOH/g	█ 9.0	---	---	---
Oxidation (PA)	%	67	---	---	---

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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.



### CONTAMINATION

Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	55	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	█ 0.8	---	---	---
Silicon	ppm	█ 11	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 3	---	---	---



### WEAR METALS

Iron	ppm	█ 62	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 11	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 42	---	---	---
Nickel	ppm	█ 4	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	█ 1460	---	---	---
Magnesium	ppm	█ 500	---	---	---
Zinc	ppm	█ 968	---	---	---
Phosphorus	ppm	█ 820	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 65	---	---	---

**Depot:** VOLVO0093  
**Unique No:** 10561123  
**Signed:** Wes Davis  
**Report Date:** 19 Jul 2023

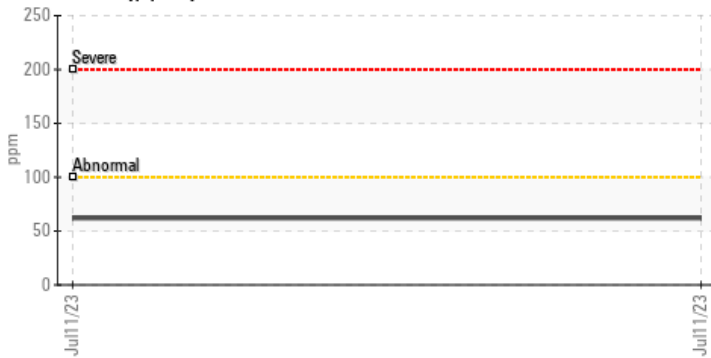


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## GRAPHS

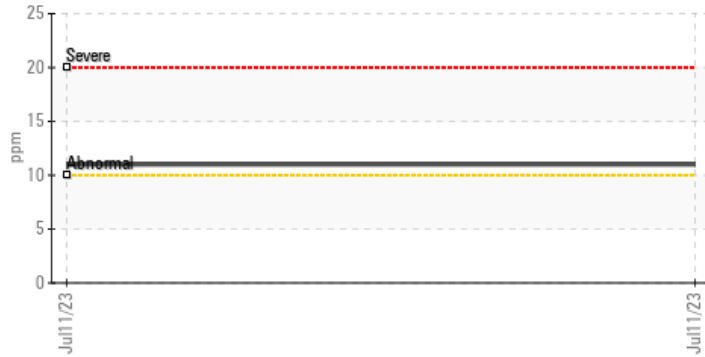
### Iron (ppm)



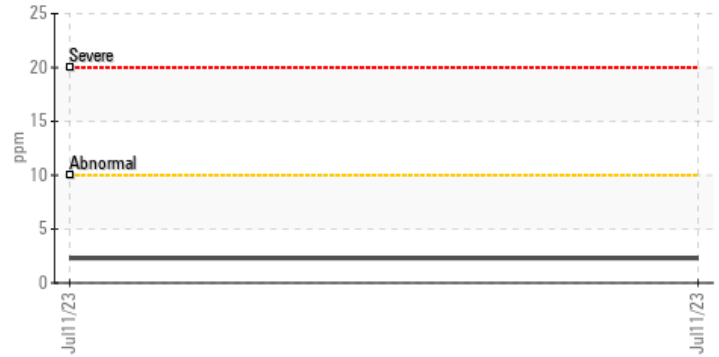
### Lead (ppm)



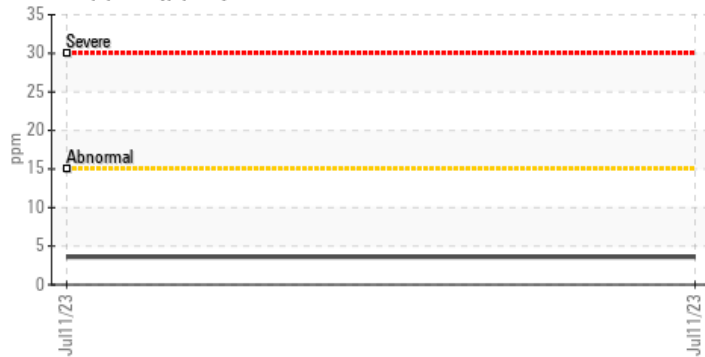
### Aluminum (ppm)



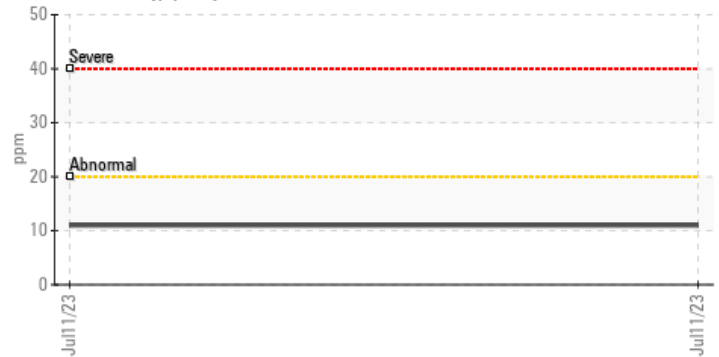
### Chromium (ppm)



### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

