



# CONSTRUCTION EQUIPMENT

## VOLVO EC380EL 315603 - DIESEL ENGINE



**Sample No:** VCP447789  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP447789	VCP437749	---	---
Sample Date	17 Jun 2024	12 Feb 2024	---	---
Machine Hours	2091	1177	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

**ALTA EQUIPMENT COMPANY**  
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### OIL CONDITION

Visc @ 100°C	cSt	12.0	11.8	---	---
Base Number (BN)	mg KOH/g	6.9	4.3	---	---
Oxidation (PA)	%	84	63	---	---



### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	76	69	---	---
Sulfation (PA)	%	62	63	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.5	---	---
Silicon	ppm	6	21	---	---
Sodium	ppm	2	1	---	---
Potassium	ppm	<1	2	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



### WEAR METALS

Iron	ppm	6	15	---	---
Copper	ppm	23	161	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	2	---	---
Aluminum	ppm	<1	2	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	37	31	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	1676	2164	---	---
Magnesium	ppm	397	88	---	---
Zinc	ppm	974	1124	---	---
Phosphorus	ppm	842	958	---	---
Barium	ppm	0	<1	---	---
Boron	ppm	9	25	---	---

**Depot:** VOLVO0090  
**Unique No:** 11087202  
**Signed:** Don Baldrige  
**Report Date:** 21 Jun 2024

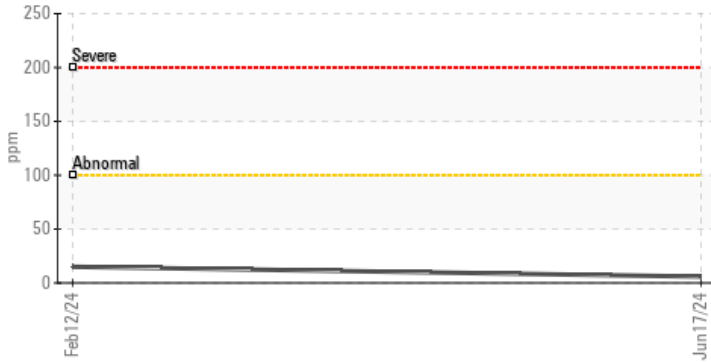


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## GRAPHS

### Iron (ppm)



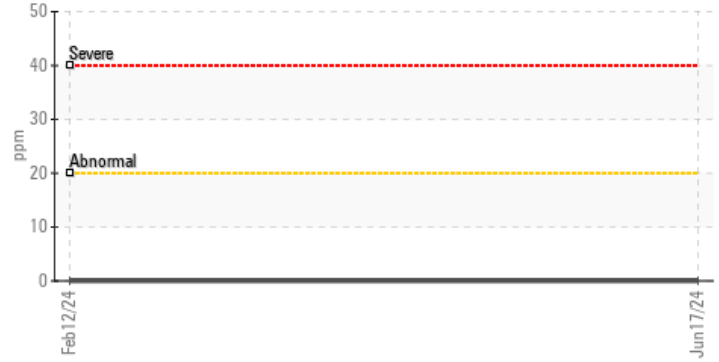
### Lead (ppm)



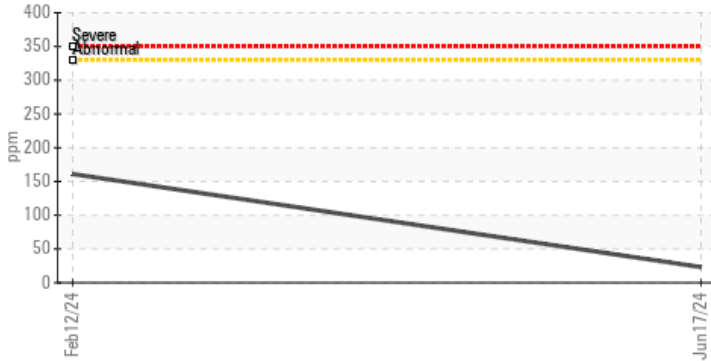
### Aluminum (ppm)



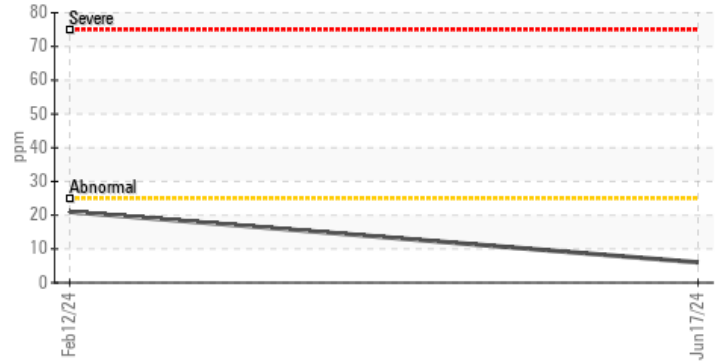
### Chromium (ppm)



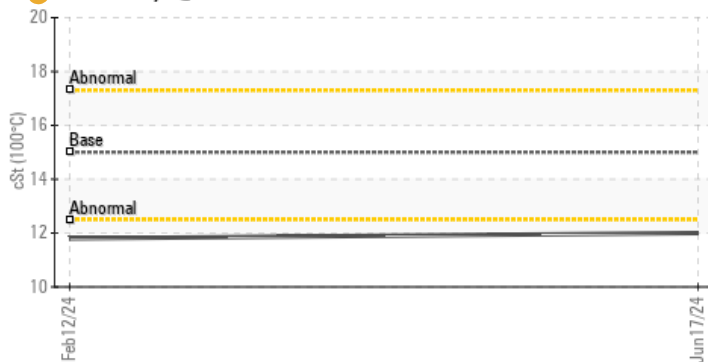
### Copper (ppm)



### Silicon (ppm)



### ● Viscosity @ 100°C



### Base Number

