



CONSTRUCTION EQUIPMENT

SWA553305 RENTAL VOLVO EC480E 315232 - DIESEL ENGINE



Sample No: VCP442883
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA553305 RENTAL



SAMPLE INFORMATION

Sample Number	VCP442883	---	---	---
Sample Date	09 May 2024	---	---	---
Machine Hours	178	---	---	---
Oil Hours	178	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT

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 SYRACUSE, NY
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OIL CONDITION

Visc @ 100°C	cSt	● 11.1	---	---	---
Base Number (BN)	mg KOH/g	■ 7.1	---	---	---
Oxidation (PA)	%	■ 57	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). Fuel content negligible. 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.



CONTAMINATION

Water	%	■ NEG	---	---	---
Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	■ 73	---	---	---
Sulfation (PA)	%	■ 50	---	---	---
Glycol	%	■ NEG	---	---	---
Fuel	%	■ 0.3	---	---	---
Silicon	ppm	■ 23	---	---	---
Sodium	ppm	■ 24	---	---	---
Potassium	ppm	■ 4	---	---	---



WEAR METALS

Iron	ppm	■ 12	---	---	---
Copper	ppm	▲ 73	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 7	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 85	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	■ 1	---	---	---
Silver	ppm	■ <1	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	■ <1	---	---	---



ADDITIVES

Calcium	ppm	■ 2161	---	---	---
Magnesium	ppm	■ 49	---	---	---
Zinc	ppm	■ 1189	---	---	---
Phosphorus	ppm	■ 1057	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 61	---	---	---

Depot: VOLVO0142
Unique No: 11032233
Signed: Jonathan Hester
Report Date: 24 May 2024

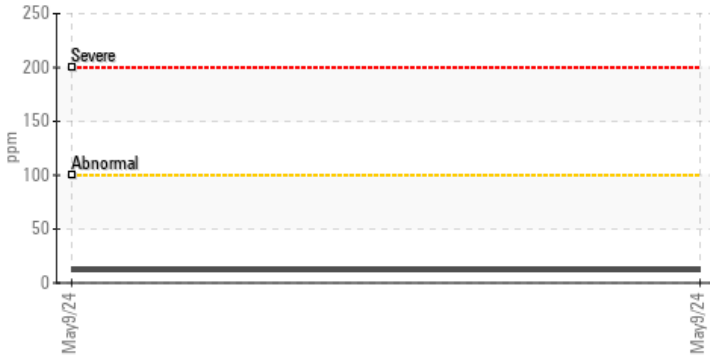


CONSTRUCTION EQUIPMENT



GRAPHS

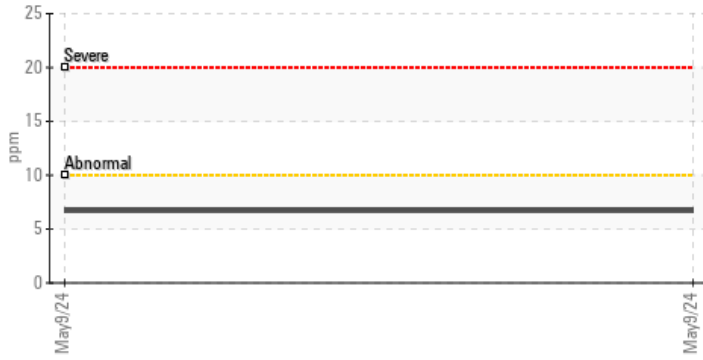
Iron (ppm)



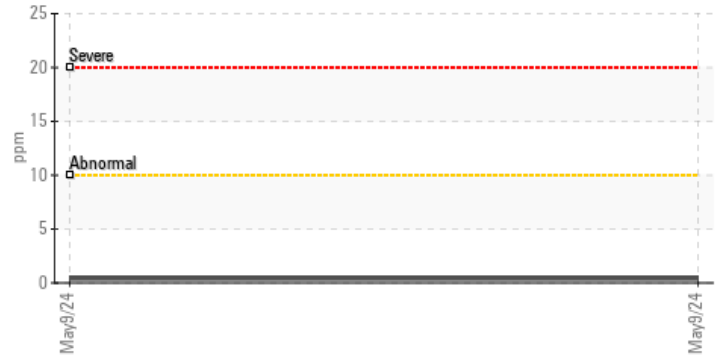
Lead (ppm)



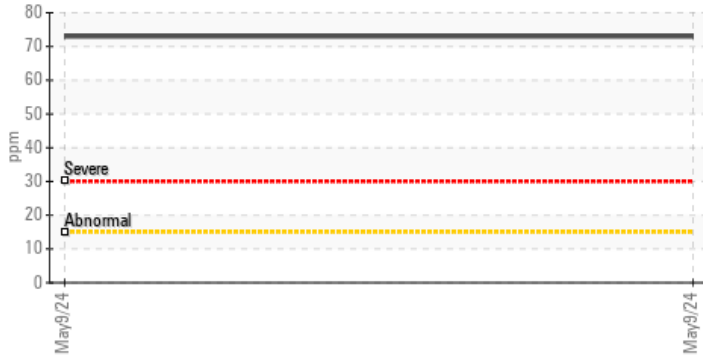
Aluminum (ppm)



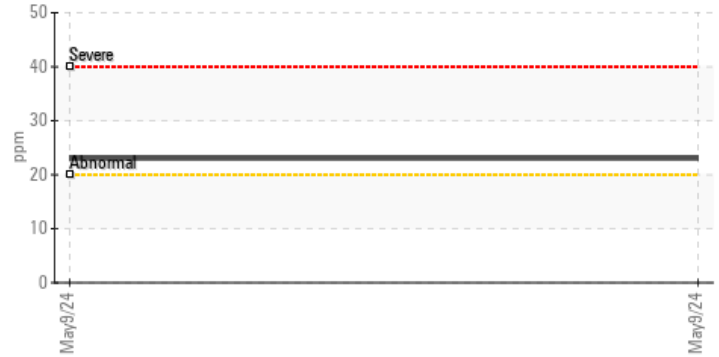
Chromium (ppm)



▲ Copper (ppm)



Silicon (ppm)



● Viscosity @ 100°C



Base Number

