



CONSTRUCTION EQUIPMENT

X17833 APAC VOLVO EC480EL 314326 - DIESEL ENGINE



Sample No: VCE67891D
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X17833 APAC



SAMPLE INFORMATION

Sample Number	VCE67891D	---	---	---
Sample Date	26 Sep 2023	---	---	---
Machine Hours	4957	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.1	---	---	---
Base Number (BN)	mg KOH/g	■ 7.6	---	---	---
Oxidation (PA)	%	85	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Cylinder, crank, or cam shaft wear is indicated. Sodium and/or potassium levels are high. Fuel content negligible. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

CONTAMINATION

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	63	---	---	---
Sulfation (PA)	%	64	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.3	---	---	---
Silicon	ppm	■ 14	---	---	---
Sodium	ppm	▲ 43	---	---	---
Potassium	ppm	▲ 40	---	---	---

WEAR METALS

Iron	ppm	▲ 196	---	---	---
Copper	ppm	■ 5	---	---	---
Lead	ppm	■ 1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 39	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	■ 1408	---	---	---
Magnesium	ppm	■ 396	---	---	---
Zinc	ppm	■ 1014	---	---	---
Phosphorus	ppm	■ 820	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 12	---	---	---

Depot: VOLVO8771
Unique No: 10670936
Signed: Jonathan Hester
Report Date: 03 Oct 2023

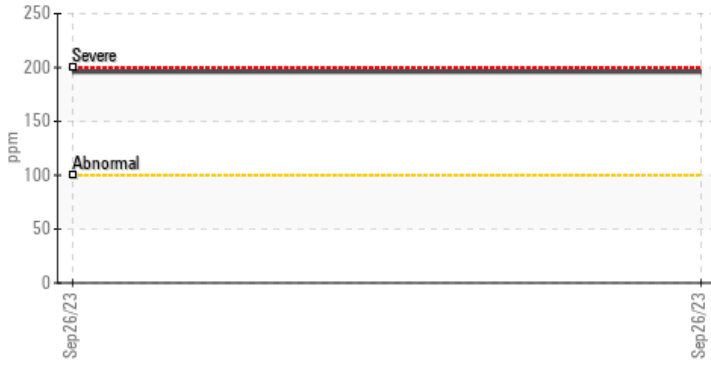


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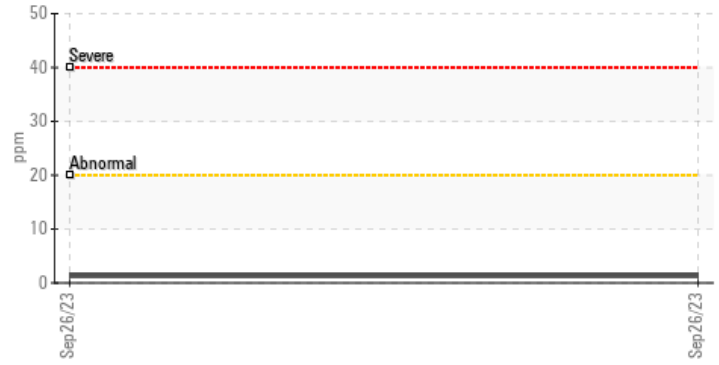


GRAPHS

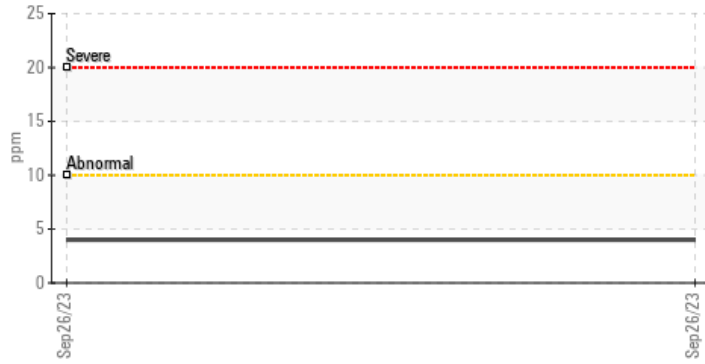
▲ Iron (ppm)



Lead (ppm)



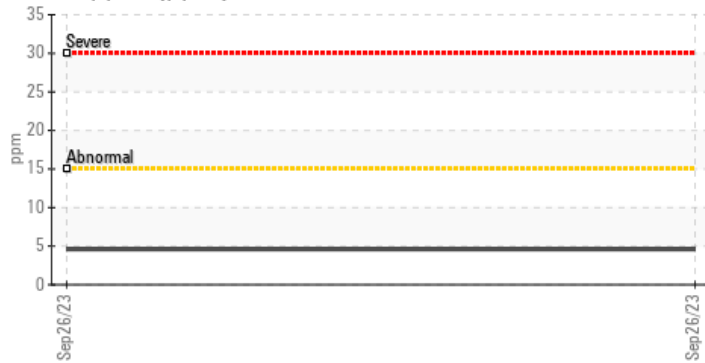
Aluminum (ppm)



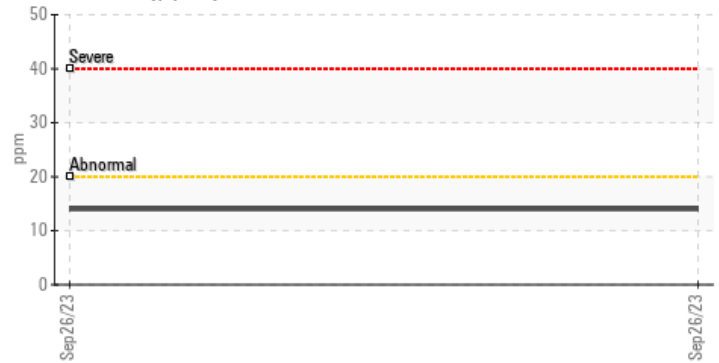
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

