



CONSTRUCTION EQUIPMENT

VOLVO A45G 752 116 - DIESEL ENGINE



Sample No: VCP454779
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP454779	---	---	---
Sample Date	04 Jun 2024	---	---	---
Machine Hours	757	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 10.7	---	---	---
Base Number (BN)	mg KOH/g	■ 5.1	---	---	---
Oxidation (PA)	%	■ 61	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Valve wear is indicated. All other metal levels are typical for a new component breaking in. Fuel content negligible. No other contaminants were detected 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 %	%	■ 0.4	---	---	---
Nitration (PA)	%	■ 82	---	---	---
Sulfation (PA)	%	■ 61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 1.5	---	---	---
Silicon	ppm	■ 30	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 3	---	---	---



WEAR METALS

Iron	ppm	■ 31	---	---	---
Copper	ppm	■ 157	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 7	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ 2	---	---	---
Molybdenum	ppm	■ 92	---	---	---
Nickel	ppm	▲ 12	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2199	---	---	---
Magnesium	ppm	■ 30	---	---	---
Zinc	ppm	■ 1142	---	---	---
Phosphorus	ppm	■ 940	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 17	---	---	---

Depot: VOLVO0090
Unique No: 11073570
Signed: Sean Felton
Report Date: 17 Jun 2024

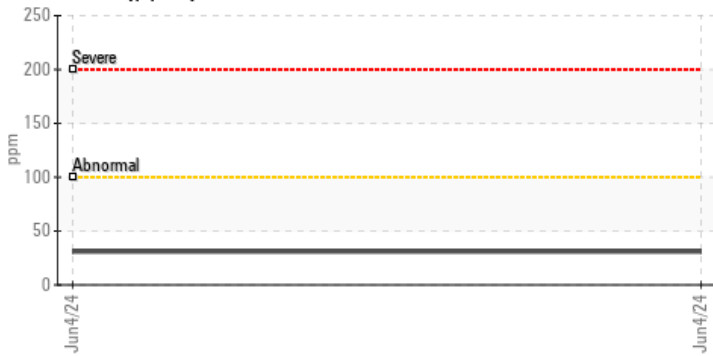


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GRAPHS

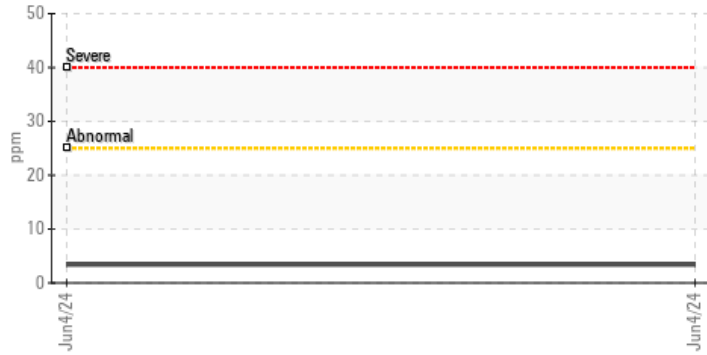
Iron (ppm)



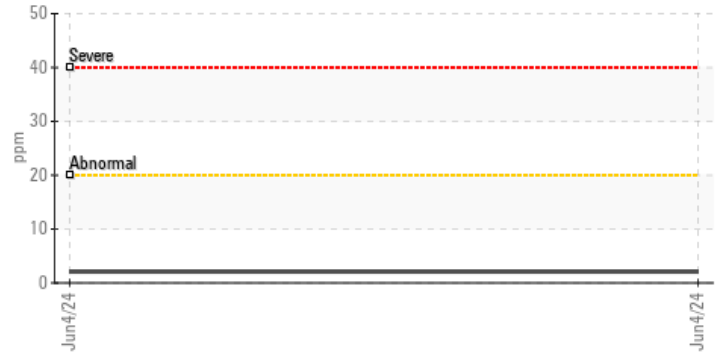
Lead (ppm)



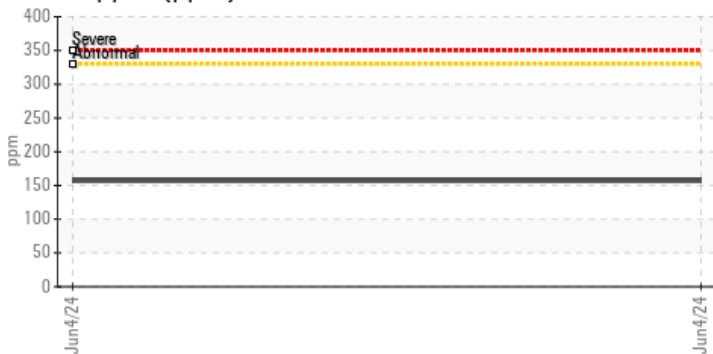
Aluminum (ppm)



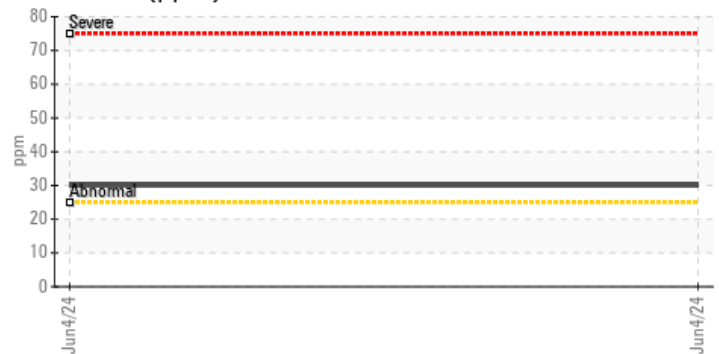
Chromium (ppm)



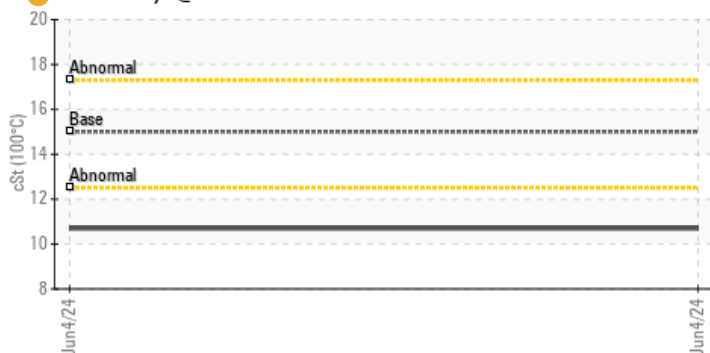
Copper (ppm)



Silicon (ppm)



● Viscosity @ 100°C



Base Number

