



CONSTRUCTION EQUIPMENT

VOLVO A40G 352973 - DIESEL ENGINE



Sample No: VCP421322
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP421322	---	---	---
Sample Date	04 Aug 2023	---	---	---
Machine Hours	1903	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	---	---	---
Base Number (BN)	mg KOH/g	■ 6.0	---	---	---
Oxidation (PA)	%	87	---	---	---

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. All other component wear rates are normal. 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.



CONTAMINATION

Soot %	%	■ 0.4	---	---	---
Nitration (PA)	%	91	---	---	---
Sulfation (PA)	%	68	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.3	---	---	---
Silicon	ppm	■ 12	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 1	---	---	---



WEAR METALS

Iron	ppm	■ 17	---	---	---
Copper	ppm	▲ 48	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ < 1	---	---	---
Molybdenum	ppm	■ 52	---	---	---
Nickel	ppm	■ 7	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 1776	---	---	---
Magnesium	ppm	■ 460	---	---	---
Zinc	ppm	■ 1155	---	---	---
Phosphorus	ppm	■ 848	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 7	---	---	---

Depot: VOLVO0090
Unique No: 10605808
Signed: Jonathan Hester
Report Date: 21 Aug 2023



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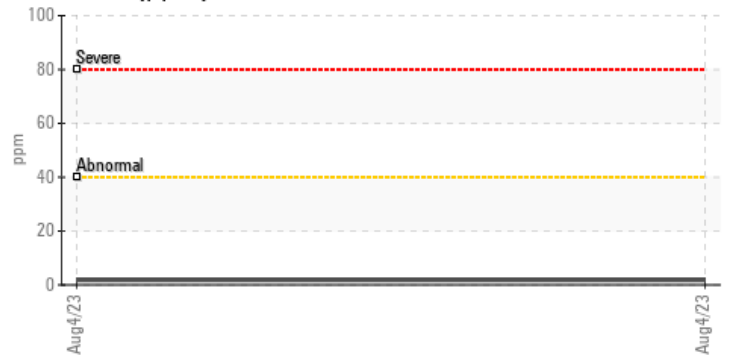


GRAPHS

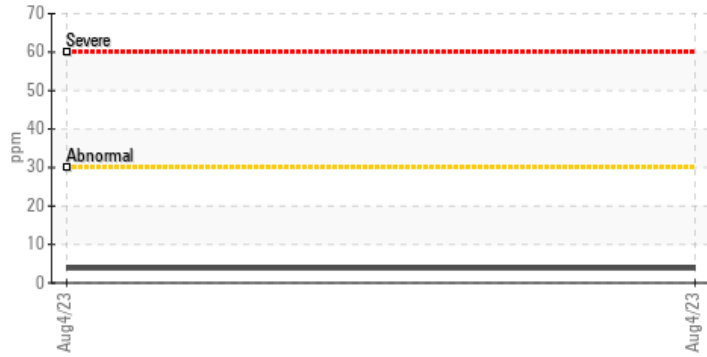
Iron (ppm)



Lead (ppm)



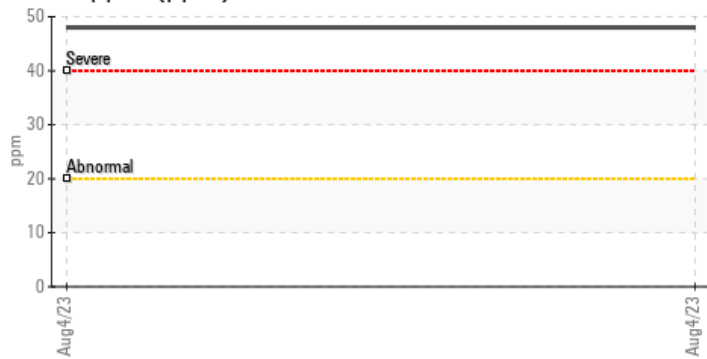
Aluminum (ppm)



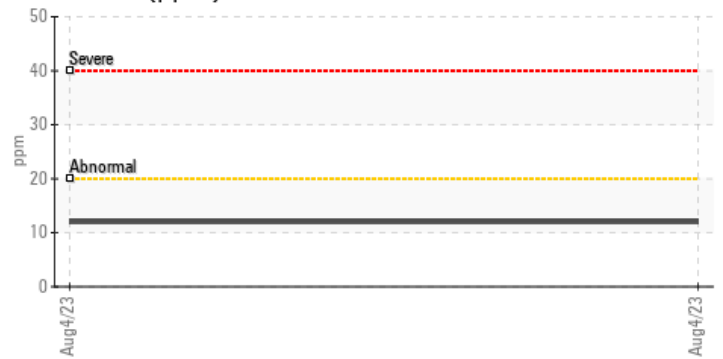
Chromium (ppm)



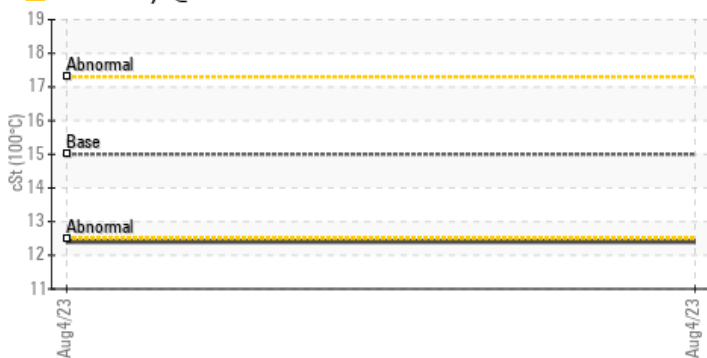
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

