



CONSTRUCTION EQUIPMENT

VOLVO A40G 75239 - DIESEL ENGINE



Sample No: VCP450516
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP450516	---	---	---
Sample Date	05 Jul 2024	---	---	---
Machine Hours	711	---	---	---
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	■ 4.5	---	---	---
Oxidation (PA)	%	■ 59	---	---	---

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. 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 %	%	■ 0.2	---	---	---
Nitration (PA)	%	■ 82	---	---	---
Sulfation (PA)	%	■ 61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.4	---	---	---
Silicon	ppm	■ 29	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 4	---	---	---



WEAR METALS

Iron	ppm	■ 21	---	---	---
Copper	ppm	■ 162	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 4	---	---	---
Aluminum	ppm	■ 3	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 82	---	---	---
Nickel	ppm	▲ 8	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2169	---	---	---
Magnesium	ppm	■ 75	---	---	---
Zinc	ppm	■ 1158	---	---	---
Phosphorus	ppm	■ 987	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 16	---	---	---

Depot: VOLVO0090
Unique No: 11115403
Signed: Sean Felton
Report Date: 12 Jul 2024



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GRAPHS

Iron (ppm)



Lead (ppm)



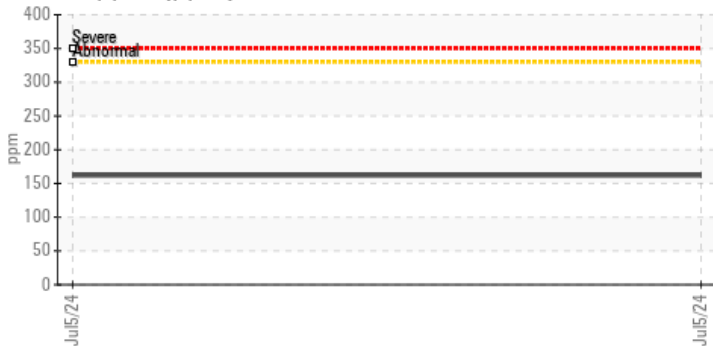
Aluminum (ppm)



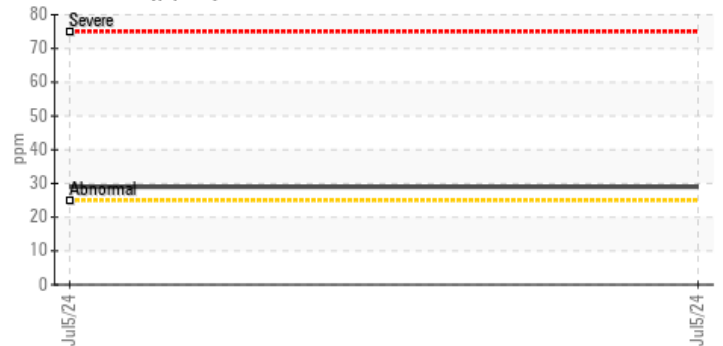
Chromium (ppm)



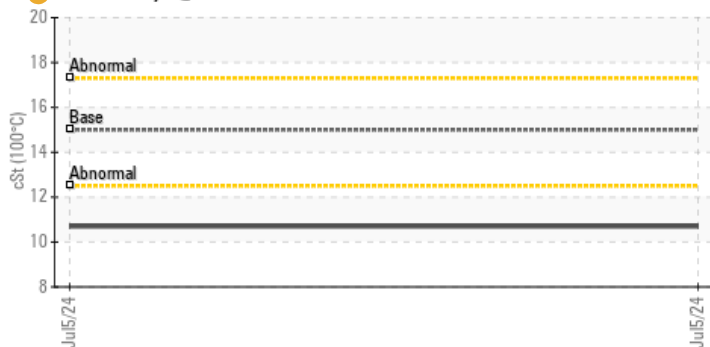
Copper (ppm)



Silicon (ppm)



● Viscosity @ 100°C



Base Number

