



CONSTRUCTION EQUIPMENT

VOLVO A25G 752303 - DIESEL ENGINE



Sample No: VCP412891
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP412891	---	---	---
Sample Date	14 Jun 2023	---	---	---
Machine Hours	2719	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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 T:
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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.5	---	---	---
Base Number (BN)	mg KOH/g	■ 4.8	---	---	---
Oxidation (PA)	%	97	---	---	---



CONTAMINATION

Soot %	%	■ 2.4	---	---	---
Nitration (PA)	%	138	---	---	---
Sulfation (PA)	%	81	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.5	---	---	---
Silicon	ppm	▲ 27	---	---	---
Sodium	ppm	■ 7	---	---	---
Potassium	ppm	■ 4	---	---	---



WEAR METALS

Iron	ppm	▲ 110	---	---	---
Copper	ppm	■ 248	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 8	---	---	---
Aluminum	ppm	▲ 6	---	---	---
Chromium	ppm	■ 3	---	---	---
Molybdenum	ppm	■ 84	---	---	---
Nickel	ppm	▲ 7	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 7	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 2206	---	---	---
Magnesium	ppm	■ 312	---	---	---
Zinc	ppm	■ 1319	---	---	---
Phosphorus	ppm	■ 1070	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 27	---	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. 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. Valve wear is indicated. Fuel content negligible. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0090
Unique No: 10563390
Signed: Jonathan Hester
Report Date: 20 Jul 2023



CONSTRUCTION EQUIPMENT



GRAPHS

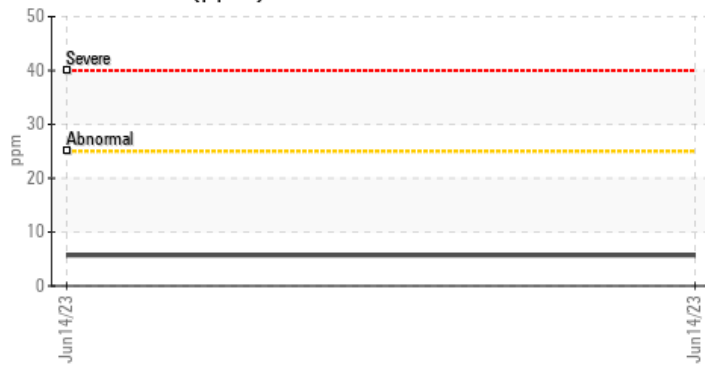
▲ Iron (ppm)



Lead (ppm)



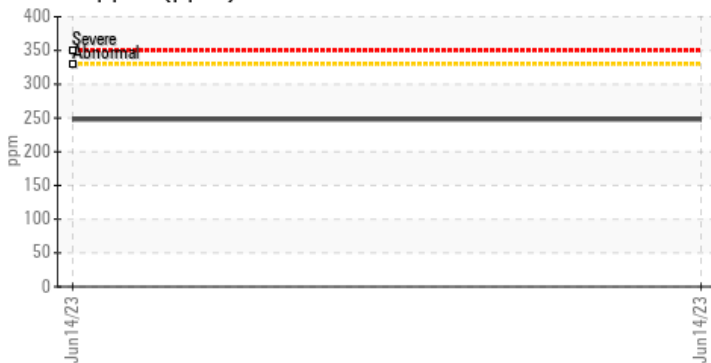
▲ Aluminum (ppm)



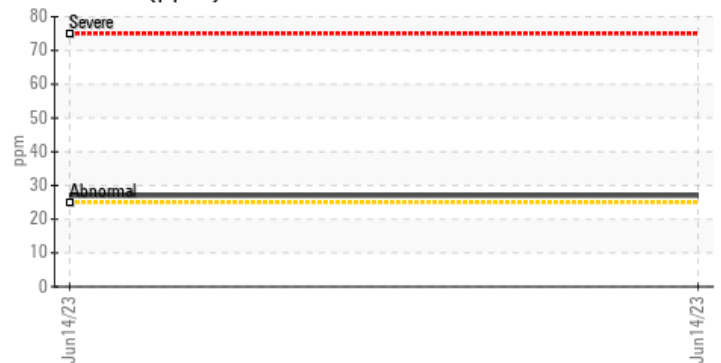
Chromium (ppm)



Copper (ppm)



▲ Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

