



CONSTRUCTION EQUIPMENT

518887 RENTALS VOLVO A30G 752643 - DIESEL ENGINE



Sample No: VCP438383
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 518887 RENTALS



SAMPLE INFORMATION

Sample Number	VCP438383	VCP397417	---	---
Sample Date	27 Mar 2024	13 Jan 2023	---	---
Machine Hours	1981	1616	---	---
Oil Hours	0	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 12.1	■ 13.2	---	---
Base Number (BN)	mg KOH/g	■ 9.0	■ 8.0	---	---
Oxidation (PA)	%	76	52	---	---

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. 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	NEG	---	---
Soot %	%	■ 0.4	■ 0.1	---	---
Nitration (PA)	%	68	43	---	---
Sulfation (PA)	%	61	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 0.2	<1.0	---	---
Silicon	ppm	■ 6	■ 9	---	---
Sodium	ppm	■ 1	■ 1	---	---
Potassium	ppm	■ 0	■ 2	---	---



WEAR METALS

Iron	ppm	■ 20	■ 6	---	---
Copper	ppm	▲ 61	■ 17	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ 0	■ <1	---	---
Aluminum	ppm	■ <1	■ 2	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 81	■ 81	---	---
Nickel	ppm	▲ 24	■ <1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	■ 0	■ <1	---	---
Manganese	ppm	■ 2	■ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 1908	■ 1394	---	---
Magnesium	ppm	■ 523	■ 377	---	---
Zinc	ppm	■ 1233	■ 1171	---	---
Phosphorus	ppm	■ 1058	■ 965	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 23	389	---	---

Depot: VOLVO0093
Unique No: 10994114
Signed: Jonathan Hester
Report Date: 01 May 2024

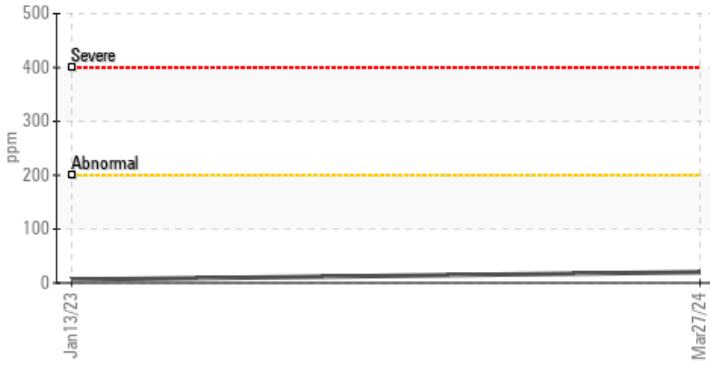


CONSTRUCTION EQUIPMENT

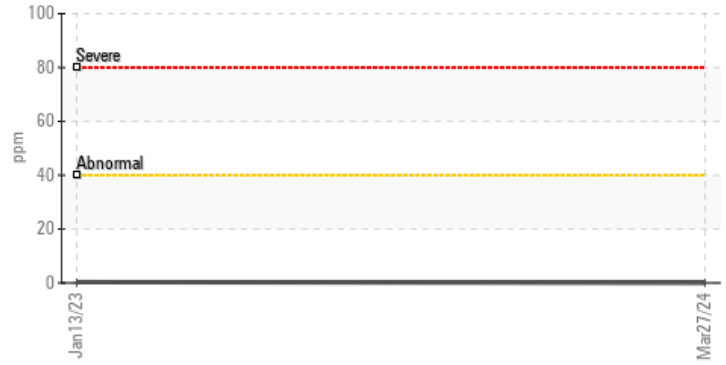


GRAPHS

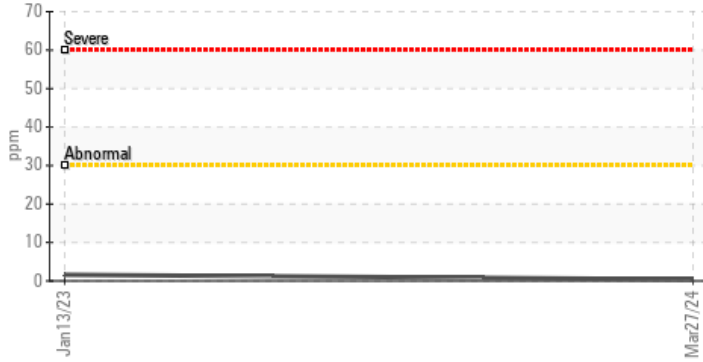
Iron (ppm)



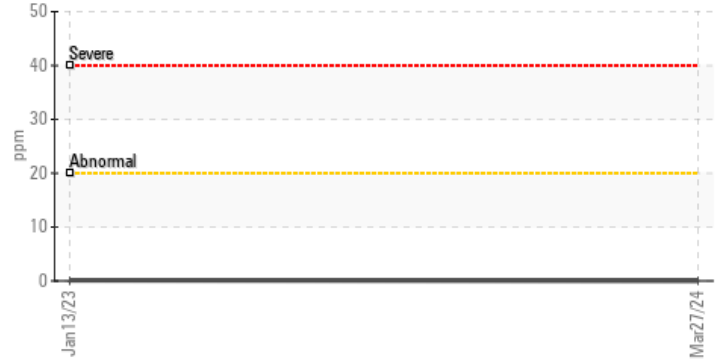
Lead (ppm)



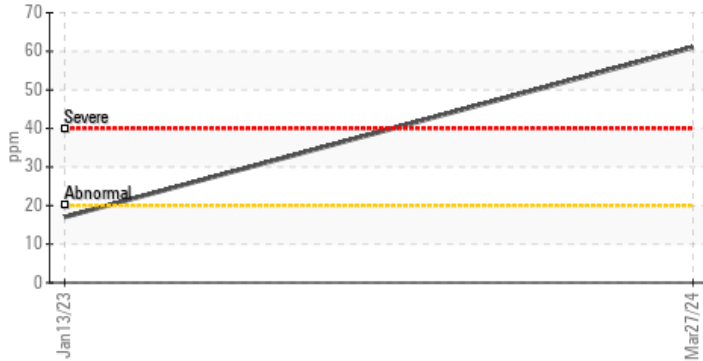
Aluminum (ppm)



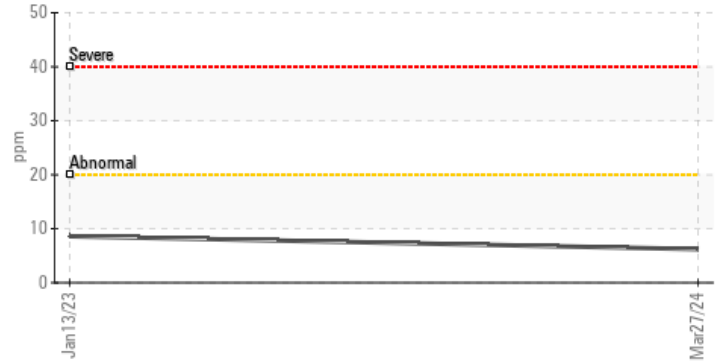
Chromium (ppm)



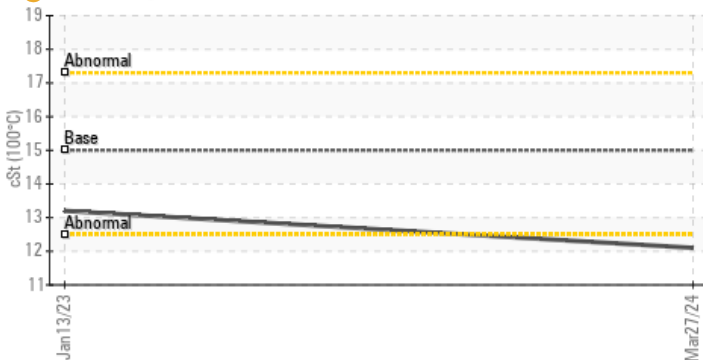
▲ Copper (ppm)



Silicon (ppm)



● Viscosity @ 100°C



Base Number

