



CONSTRUCTION EQUIPMENT

X18297 BIRDSONG VOLVO A40G 752061 - DIESEL ENGINE



Sample No: VCP430997
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X18297 BIRDSONG



SAMPLE INFORMATION

Sample Number	VCP430997	---	---	---
Sample Date	20 Feb 2024	---	---	---
Machine Hours	964	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.9	---	---	---
Base Number (BN)	mg KOH/g	■ 4.9	---	---	---
Oxidation (PA)	%	57	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The nickel level is abnormal. All other metal levels are typical for a new component breaking in. 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)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.4	---	---	---
Silicon	ppm	■ 26	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 4	---	---	---



WEAR METALS

Iron	ppm	■ 20	---	---	---
Copper	ppm	■ 249	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	■ 4	---	---	---
Chromium	ppm	■ <1	---	---	---
Molybdenum	ppm	■ 85	---	---	---
Nickel	ppm	▲ 8	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 3	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 1899	---	---	---
Magnesium	ppm	■ 20	---	---	---
Zinc	ppm	■ 1054	---	---	---
Phosphorus	ppm	■ 841	---	---	---
Barium	ppm	■ 34	---	---	---
Boron	ppm	■ 30	---	---	---

Depot: VOLVO8771
Unique No: 10898171
Signed: Jonathan Hester
Report Date: 28 Feb 2024



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GRAPHS

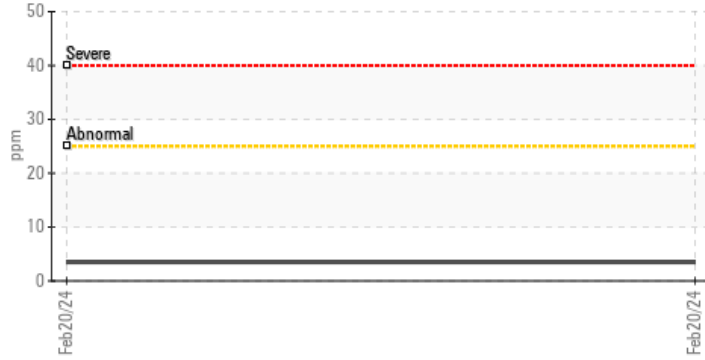
Iron (ppm)



Lead (ppm)



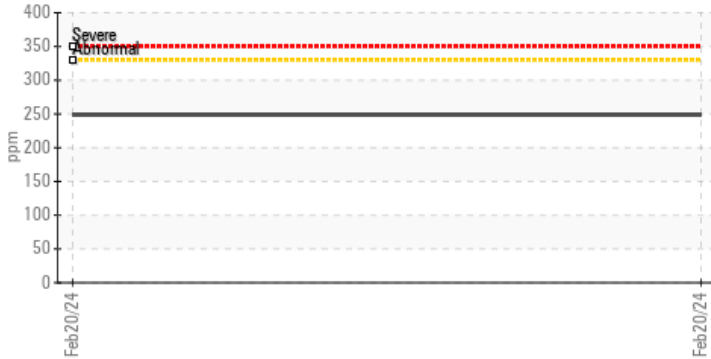
Aluminum (ppm)



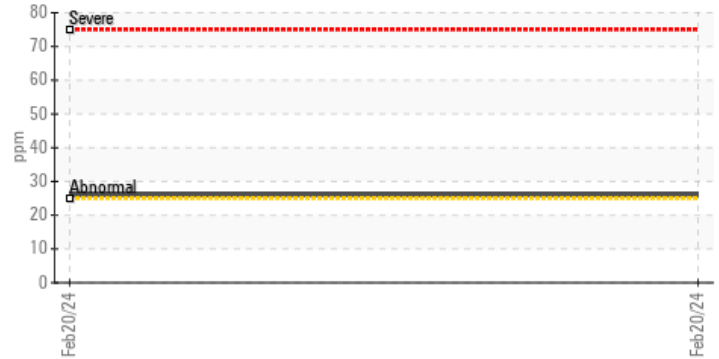
Chromium (ppm)



Copper (ppm)



Silicon (ppm)



▲ Viscosity @ 100°C



Base Number

