



CONSTRUCTION EQUIPMENT

X18600 BIRDSONG VOLVO A40G 752061 - DIESEL ENGINE



Sample No: VCP445353
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X18600 BIRDSONG



SAMPLE INFORMATION

Sample Number	VCP445353	VCP430997	---	---
Sample Date	24 May 2024	20 Feb 2024	---	---
Machine Hours	1194	964	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 12.1	● 10.9	---	---
Base Number (BN)	mg KOH/g	■ 8.5	■ 4.9	---	---
Oxidation (PA)	%	80	57	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. 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 %	%	■ 0.2	■ 0.2	---	---
Nitration (PA)	%	70	82	---	---
Sulfation (PA)	%	63	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.4	---	---
Silicon	ppm	■ 12	■ 26	---	---
Sodium	ppm	■ <1	■ 3	---	---
Potassium	ppm	■ 2	■ 4	---	---



WEAR METALS

Iron	ppm	■ 11	■ 20	---	---
Copper	ppm	■ 74	■ 249	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ 2	■ 3	---	---
Aluminum	ppm	■ 1	■ 4	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 49	■ 85	---	---
Nickel	ppm	■ 3	▲ 8	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	■ 3	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	■ 1694	■ 1899	---	---
Magnesium	ppm	■ 409	■ 20	---	---
Zinc	ppm	■ 1088	■ 1054	---	---
Phosphorus	ppm	■ 979	■ 841	---	---
Barium	ppm	■ 1	■ 34	---	---
Boron	ppm	■ 26	■ 30	---	---

Depot: VOLVO8771
Unique No: 11057069
Signed: Don Baldrige
Report Date: 31 May 2024

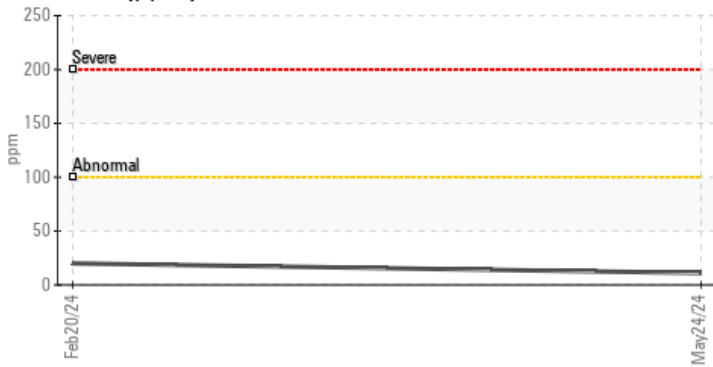


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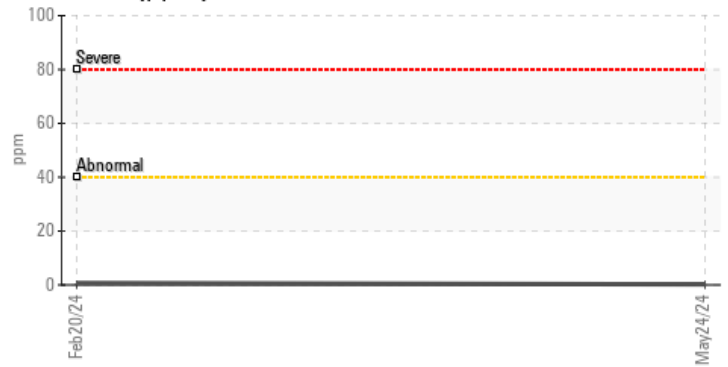


GRAPHS

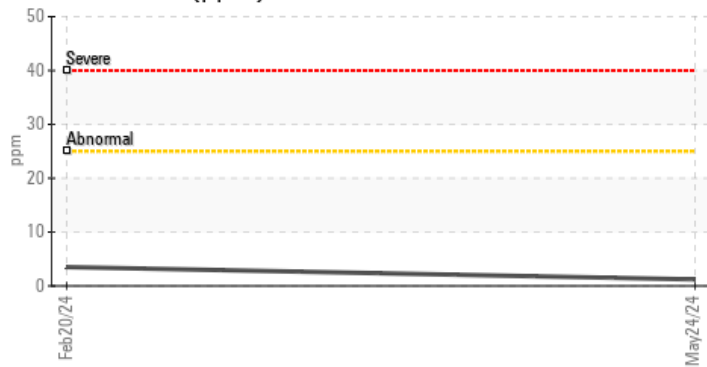
Iron (ppm)



Lead (ppm)



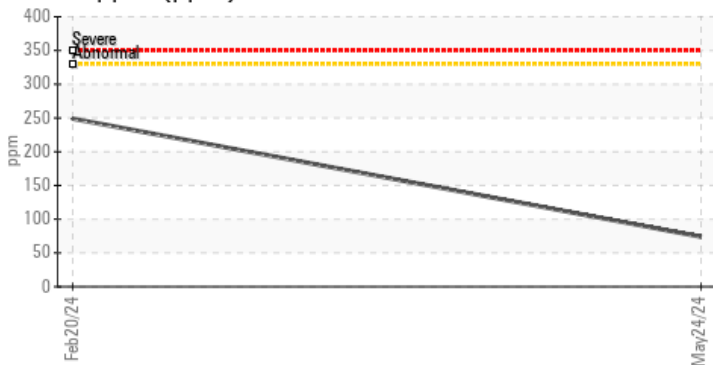
Aluminum (ppm)



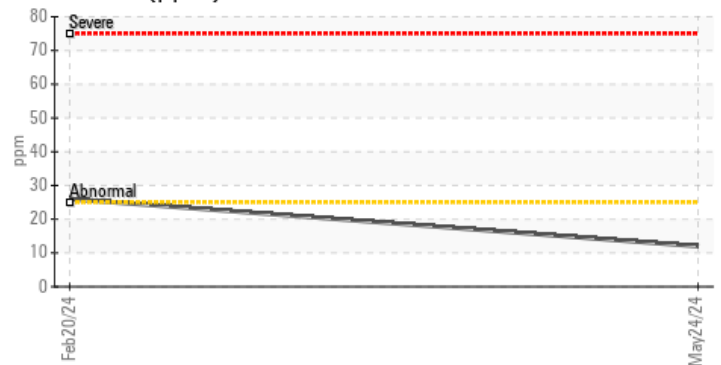
Chromium (ppm)



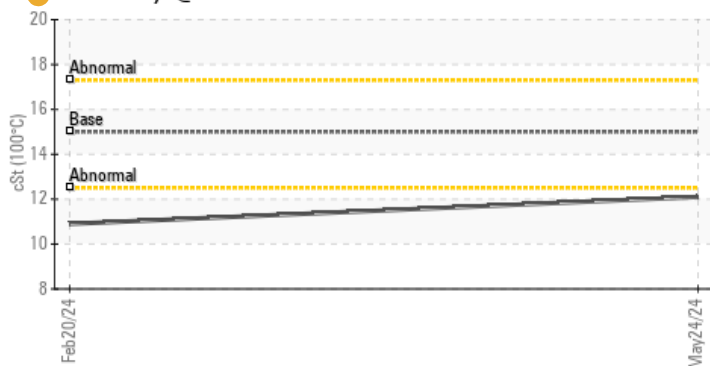
Copper (ppm)



Silicon (ppm)



● Viscosity @ 100°C



Base Number

