



CONSTRUCTION EQUIPMENT

X18498 APAC VOLVO A40G 352887 - DIESEL ENGINE



Sample No: VCP445349
Oil Type: PETROL 15W40
Job No: X18498 APAC



SAMPLE INFORMATION

Sample Number	VCP445349	VCP428616	---	---
Sample Date	17 Apr 2024	02 Feb 2024	---	---
Machine Hours	4459	4068	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	█ 12.5	---	---
Base Number (BN)	mg KOH/g	█ 7.0	█ 8.8	---	---
Oxidation (PA)	%	▲ 69	84	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	78	76	---	---
Sulfation (PA)	%	61	65	---	---
Glycol	%	▲ 0.10	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 10	---	---
Sodium	ppm	▲ 479	█ 39	---	---
Potassium	ppm	▲ 102	█ 3	---	---

Diagnosis

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is positive. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	█ 8	█ 14	---	---
Copper	ppm	█ 8	█ 35	---	---
Lead	ppm	█ <1	█ 2	---	---
Tin	ppm	█ <1	█ 2	---	---
Aluminum	ppm	█ 2	█ 3	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 9	█ 50	---	---
Nickel	ppm	█ 3	▲ 8	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	<1	█ 2	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	█ 2029	█ 1720	---	---
Magnesium	ppm	█ 74	█ 530	---	---
Zinc	ppm	█ 1016	█ 1242	---	---
Phosphorus	ppm	█ 905	█ 952	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 100	█ 45	---	---

Depot: VOLVO8771
Unique No: 10990944
Signed: Jonathan Hester
Report Date: 24 Apr 2024

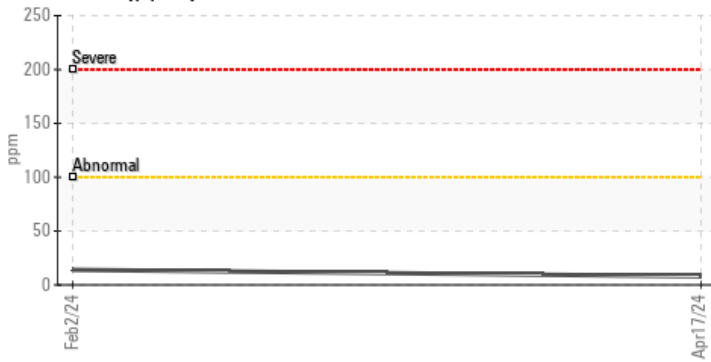


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GRAPHS

Iron (ppm)



Lead (ppm)



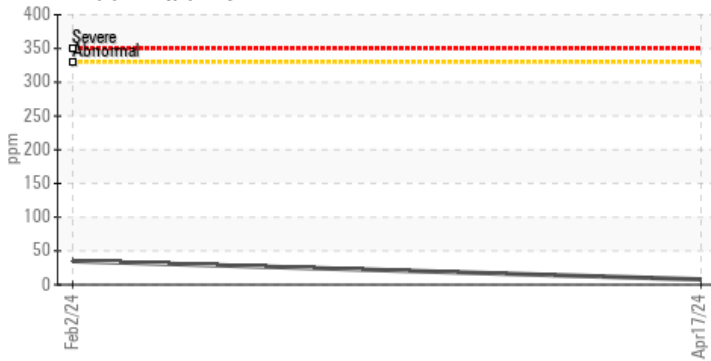
Aluminum (ppm)



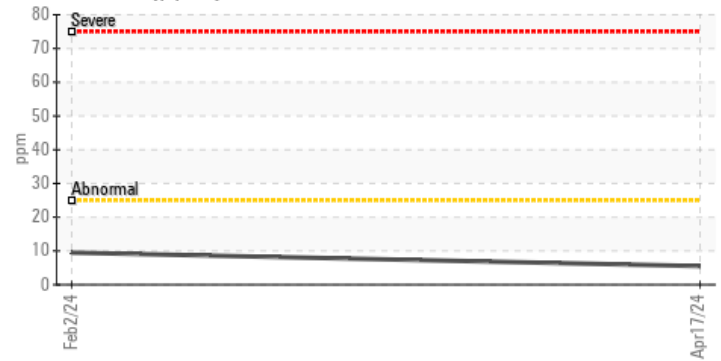
Chromium (ppm)



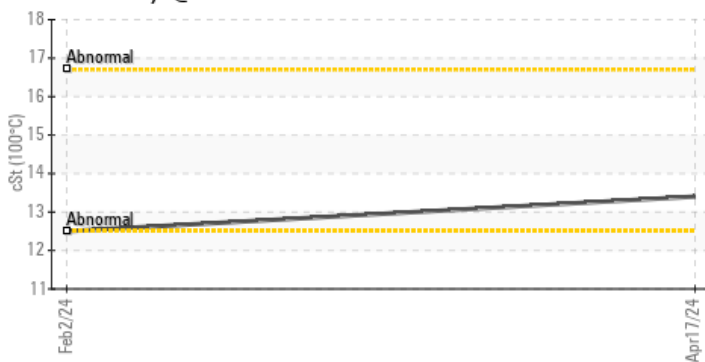
Copper (ppm)



Silicon (ppm)



Viscosity @ 100°C



Base Number

