



CONSTRUCTION EQUIPMENT

51535 VOLVO L120H 632867 - DIESEL ENGINE



Sample No: VCP445361
Oil Type: {unknown}
Job No: 51535



SAMPLE INFORMATION

Sample Number	VCP445361	---	---	---
Sample Date	12 Apr 2024	---	---	---
Machine Hours	6165	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.6	---	---	---
Base Number (BN)	mg KOH/g	█ 6.1	---	---	---
Oxidation (PA)	%	111	---	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Piston and cylinder wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 2.7	---	---	---
Nitration (PA)	%	117	---	---	---
Sulfation (PA)	%	88	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 68	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	▲ 115	---	---	---
Copper	ppm	█ 7	---	---	---
Lead	ppm	█ 4	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	● 53	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 67	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	1	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 1326	---	---	---
Magnesium	ppm	█ 1184	---	---	---
Zinc	ppm	█ 1355	---	---	---
Phosphorus	ppm	█ 1136	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 29	---	---	---

Depot: VOLVO8529
Unique No: 10989313
Signed: Jonathan Hester
Report Date: 23 Apr 2024

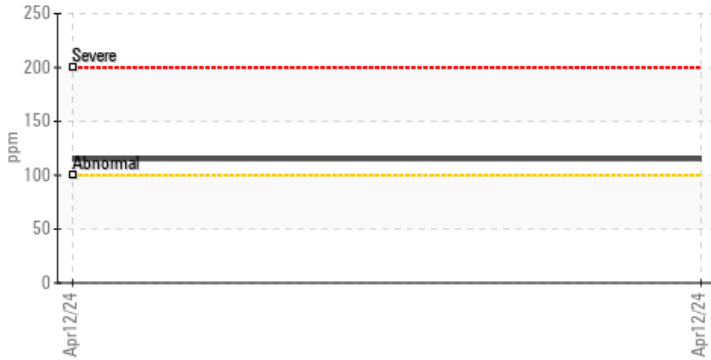


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GRAPHS

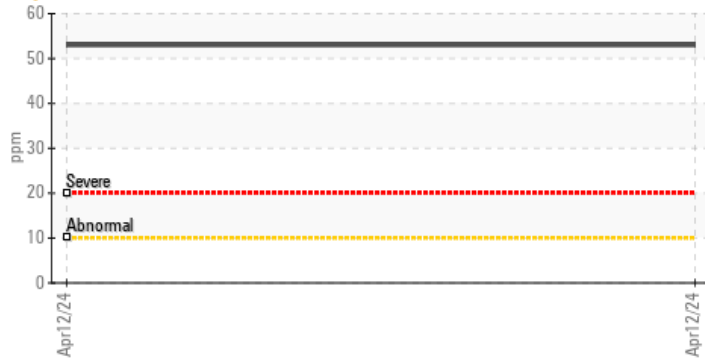
▲ Iron (ppm)



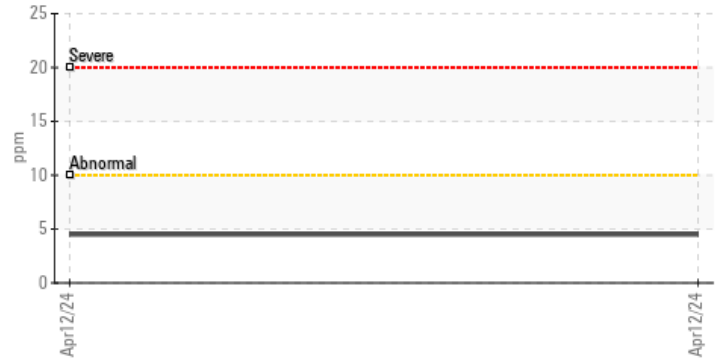
Lead (ppm)



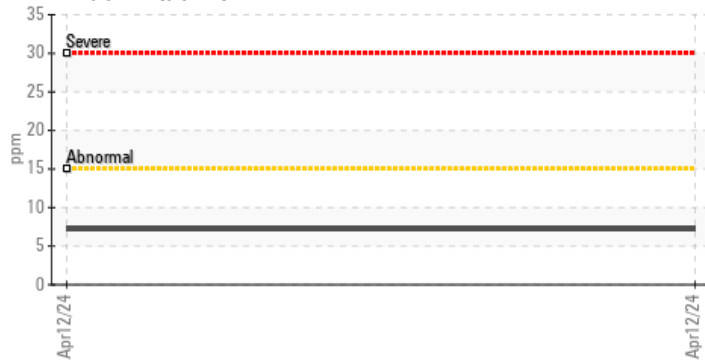
● Aluminum (ppm)



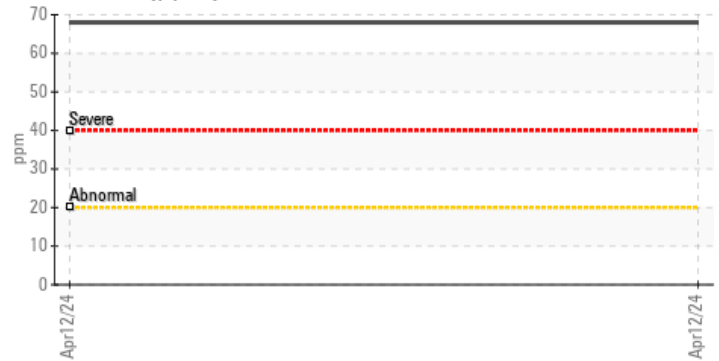
Chromium (ppm)



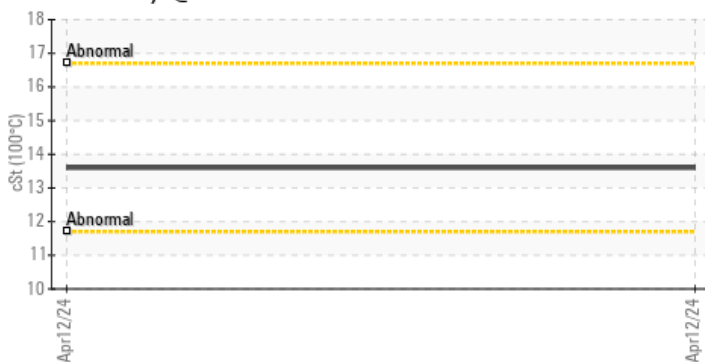
Copper (ppm)



▲ Silicon (ppm)



Viscosity @ 100°C



Base Number

