



CONSTRUCTION EQUIPMENT

VOLVO A35F 10133 - DIESEL ENGINE



Sample No: VCP423881

Oil Type: {unknown}

Job No:



SAMPLE INFORMATION

Sample Number	VCP423881	VCP398401	VCE196873	---
Sample Date	02 Jul 2024	05 Jan 2023	05 Mar 2013	---
Machine Hours	12389	11281	1779	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.3	12.2	█ 13.48	---
Base Number (BN)	mg KOH/g	█ 7.8	█ 7.8	---	---
Oxidation (PA)	%	63	61	---	---

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0.6	█ 0.5	---	---
Nitration (PA)	%	83	78	---	---
Sulfation (PA)	%	55	53	---	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	█ 1.4	<1.0	---
Silicon	ppm	█ 8	█ 8	█ 5	---
Sodium	ppm	█ 1	█ 1	█ 8	---
Potassium	ppm	█ 1	█ 1	█ 0	---



WEAR METALS

Iron	ppm	█ 28	█ 39	█ 9	---
Copper	ppm	█ 5	█ 6	▲ 46	---
Lead	ppm	█ 2	█ 2	█ <1	---
Tin	ppm	█ <1	█ <1	█ 0	---
Aluminum	ppm	█ 7	█ 10	█ 2	---
Chromium	ppm	█ <1	█ <1	█ <1	---
Molybdenum	ppm	█ 66	█ 64	█ 46	---
Nickel	ppm	█ 5	█ 6	█ 3	---
Titanium	ppm	<1	2	<1	---
Silver	ppm	█ 0	█ 0	0	---
Manganese	ppm	<1	<1	█ <1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	█ 1315	█ 1158	1418	---
Magnesium	ppm	█ 1007	█ 826	902	---
Zinc	ppm	█ 1354	█ 1169	█ 1076	---
Phosphorus	ppm	█ 976	█ 1006	█ 971	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 7	█ 22	█ 43	---

Depot: VOLVO0157
Unique No: 11111710
Signed: Jonathan Hester
Report Date: 08 Jul 2024

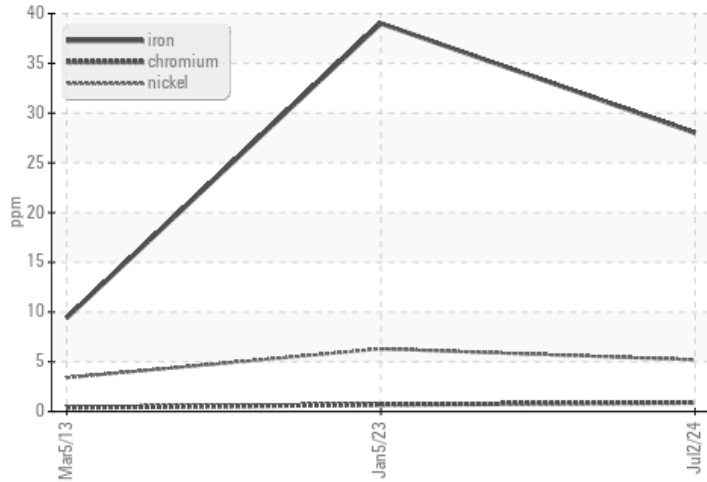


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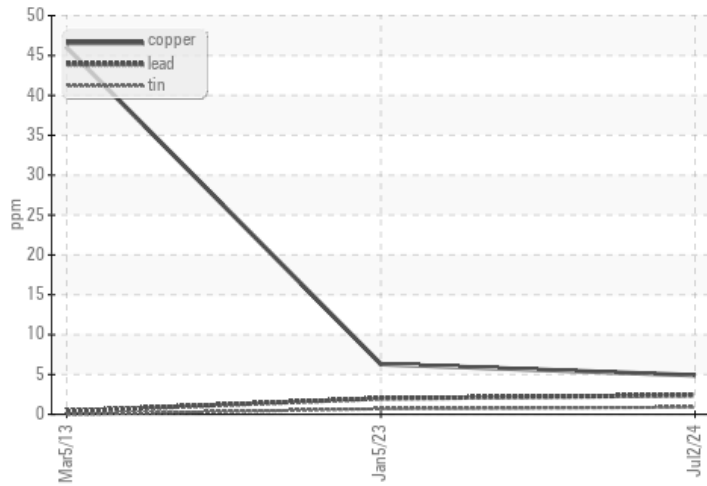


GRAPHS

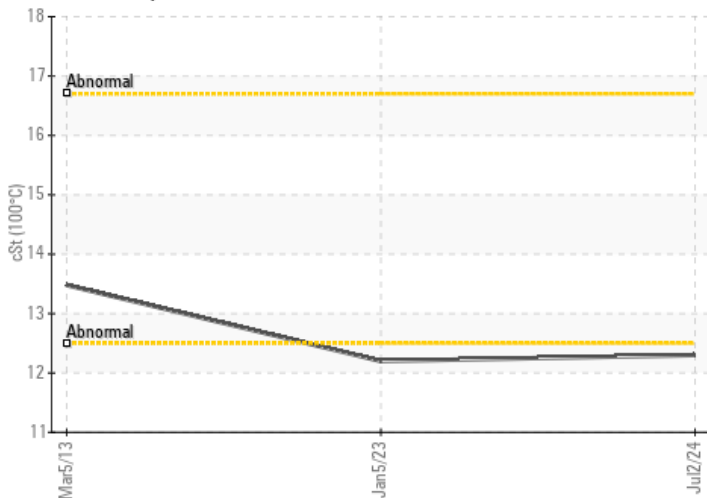
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

