CONSTRUCTION EQUIPMENT
VOLVO NOT GIVEN 310908 - HYDRAULIC SYSTEM

Sample No: VCP402637
Oil Type: FORSYTHE AGMA 6 ISO 320
Job No:

SAMPLE INFORMATION

Sample Number		**VCP402637**	---	---	---
Sample Date		**16 Sep 2023**	---	---	---
Machine Hours		**6557**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Changed**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	▲ **53.9**	---	---	---
Acid Number (AN)	mg KOH/g	■ **0.41**	---	---	---

CONTAMINATION

Particles >4µm		▲ **95982**	---	---	---
Particles >6µm		▲ **13160**	---	---	---
Particles >14µm		▲ **454**	---	---	---
ISO 4406:1999 (c)		**24/21/16**	---	---	---
Silicon	ppm	■ **9**	---	---	---
Sodium	ppm	■ **5**	---	---	---
Potassium	ppm	■ **<1**	---	---	---

WEAR METALS

Iron	ppm	▲ **29**	---	---	---
Copper	ppm	■ **45**	---	---	---
Lead	ppm	■ **<1**	---	---	---
Tin	ppm	■ **0**	---	---	---
Aluminum	ppm	■ **0**	---	---	---
Chromium	ppm	■ **2**	---	---	---
Molybdenum	ppm	■ **2**	---	---	---
Nickel	ppm	■ **0**	---	---	---
Titanium	ppm	**<1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	■ **<1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	■ **96**	---	---	---
Magnesium	ppm	■ **12**	---	---	---
Zinc	ppm	■ **383**	---	---	---
Phosphorus	ppm	■ **352**	---	---	---
Barium	ppm	■ **0**	---	---	---
Boron	ppm	■ **1**	---	---	---

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Diagnosis

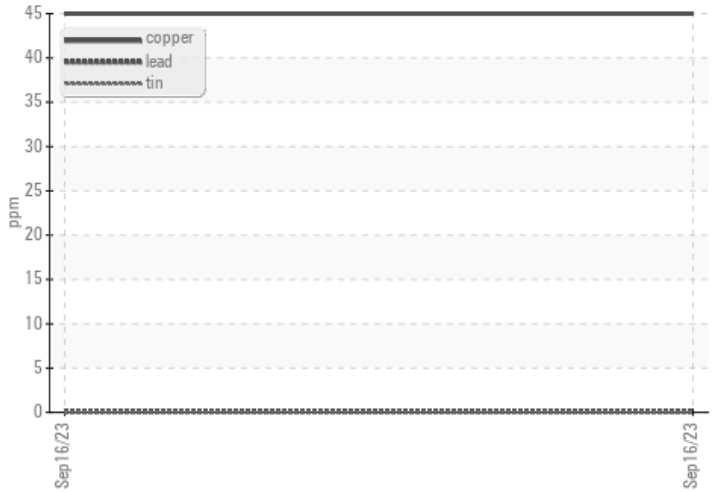
We recommend you service the filters on this component. Resample at the next service interval to monitor.The iron level is abnormal. All other component wear rates are normal. There is a high amount of particulates present in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Depot: VOLVO0090
Unique No: 10657635
Signed: Jonathan Hester
Report Date: 22 Sep 2023

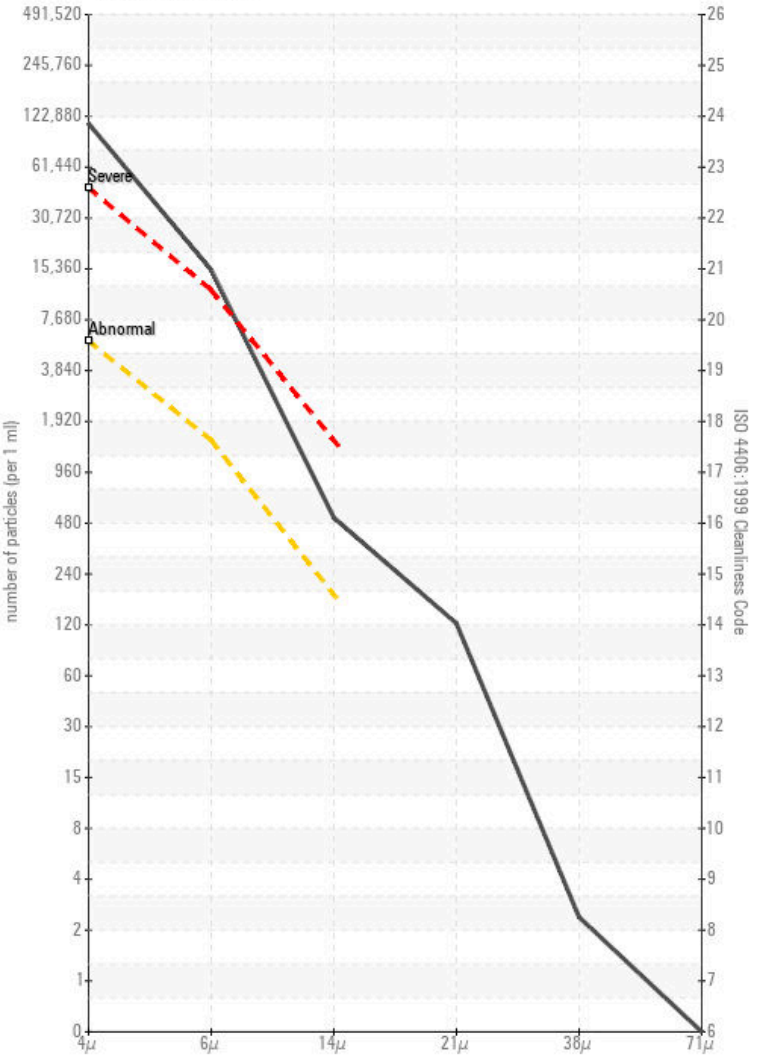
GRAPHS

Ferrous Alloys

Non-ferrous Metals



Particle Count



Viscosity @ 40°C

Acid Number