CONSTRUCTION EQUIPMENT

W06005544 THOMAS BUI VOLVO ECR305CL 110653 - HYDRAULIC SYSTEM

Sample No: VCP411783
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: W06005544 THOMAS BUI

McClung-Logan Virginia LLC
2025 COOK DRIVE
SALEM, VA
US 24153
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T: (540)789-3750
F:

SAMPLE INFORMATION

Sample Number		**VCP411783**	---	---	---
Sample Date		**18 Aug 2023**	---	---	---
Machine Hours		**0**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Not Changd**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

OIL CONDITION

Visc @ 40°C	cSt	**39.0**	---	---	---
Acid Number (AN)	mg KOH/g	**0.37**	---	---	---

CONTAMINATION

Particles >4µm		▲ **113269**	---	---	---
Particles >6µm		▲ **13014**	---	---	---
Particles >14µm		**42**	---	---	---
ISO 4406:1999 (c)		**24/21/13**	---	---	---
Silicon	ppm	**22**	---	---	---
Sodium	ppm	**<1**	---	---	---
Potassium	ppm	**0**	---	---	---

WEAR METALS

Iron	ppm	▲ **80**	---	---	---
Copper	ppm	**21**	---	---	---
Lead	ppm	**0**	---	---	---
Tin	ppm	**0**	---	---	---
Aluminum	ppm	**8**	---	---	---
Chromium	ppm	**2**	---	---	---
Molybdenum	ppm	**0**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**1**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**0**	---	---	---

ADDITIVES

Calcium	ppm	**108**	---	---	---
Magnesium	ppm	**11**	---	---	---
Zinc	ppm	**379**	---	---	---
Phosphorus	ppm	**195**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**0**	---	---	---

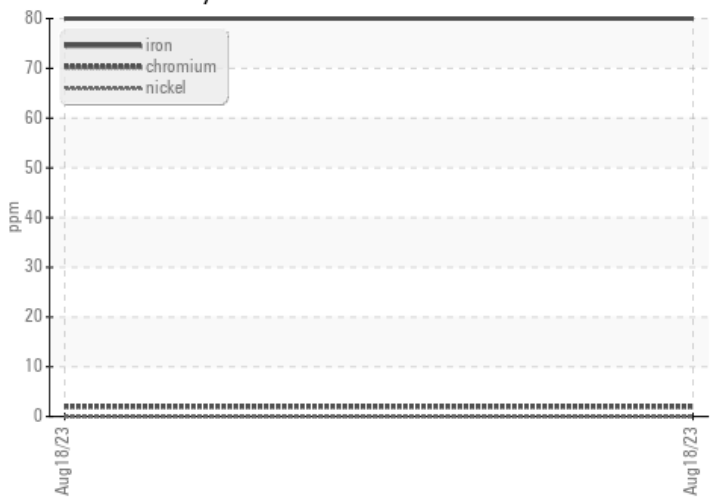
Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.The iron level is abnormal. All other component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: VOLVO9010
Unique No: 10655140
Signed: Jonathan Hester
Report Date: 20 Sep 2023

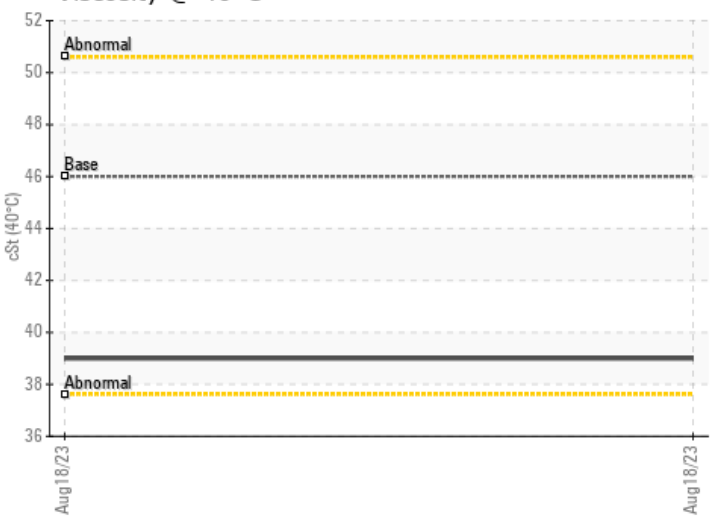
GRAPHS

Ferrous Alloys

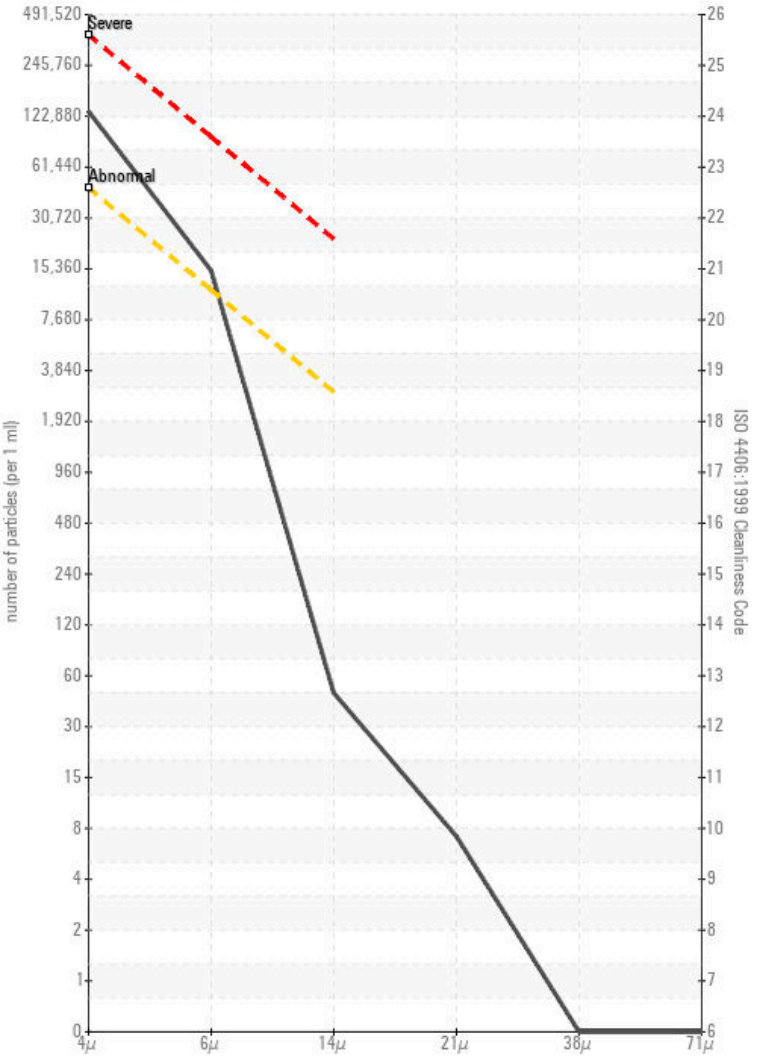


Non-ferrous Metals

Viscosity @ 40°C



Particle Count



Acid Number