



CONSTRUCTION EQUIPMENT

RENTAL VOLVO EC550 310231 - HYDRAULIC SYSTEM



Sample No: VCP428754
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: RENTAL



SAMPLE INFORMATION

Sample Number	VCP428754	VCP428755	---	---
Sample Date	13 Dec 2023	12 Dec 2023	---	---
Machine Hours	598	518	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ATTENTION	NORMAL	---	---

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 40°C	cSt	▲ 95.8	■ 42.1	---	---
Acid Number (AN)	mg KOH/g	■ 1.37	■ 0.44	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		▲ 42629	■ 5188	---	---
Particles >6µm		■ 9996	■ 1207	---	---
Particles >14µm		■ 189	■ 86	---	---
ISO 4406:1999 (c)		23/20/15	20/17/14	---	---
Silicon	ppm	■ 8	■ 1	---	---
Sodium	ppm	■ 2	■ 2	---	---
Potassium	ppm	■ 0	■ 0	---	---

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	■ 0	■ 1	---	---
Copper	ppm	■ 0	■ 16	---	---
Lead	ppm	■ 0	■ 0	---	---
Tin	ppm	■ <1	■ <1	---	---
Aluminum	ppm	■ 0	■ 0	---	---
Chromium	ppm	■ 0	■ 0	---	---
Molybdenum	ppm	▲ 36	■ 0	---	---
Nickel	ppm	■ 0	■ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 0	■ 0	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	▲ 1473	■ 92	---	---
Magnesium	ppm	▲ 446	■ 0	---	---
Zinc	ppm	■ 973	■ 397	---	---
Phosphorus	ppm	■ 830	■ 336	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	▲ 67	■ 0	---	---

Depot: VOLVO0093
Unique No: 10871007
Signed: Don Baldrige
Report Date: 10 Feb 2024

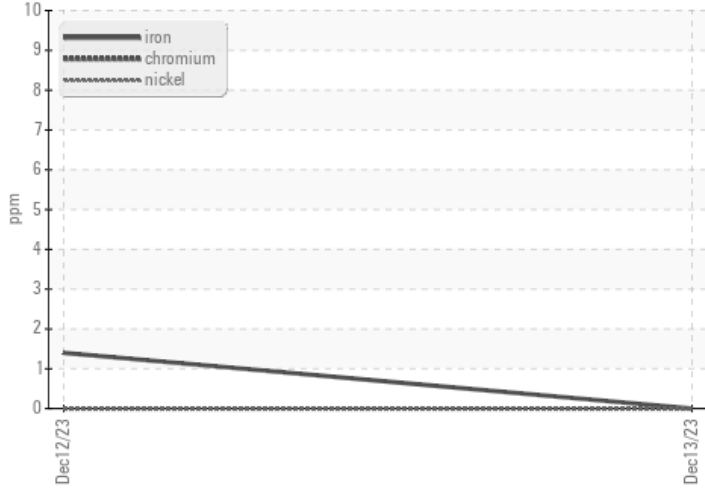


CONSTRUCTION EQUIPMENT

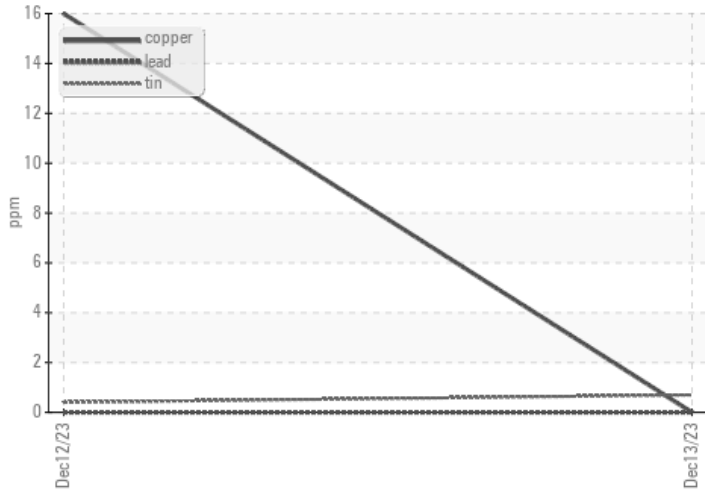


GRAPHS

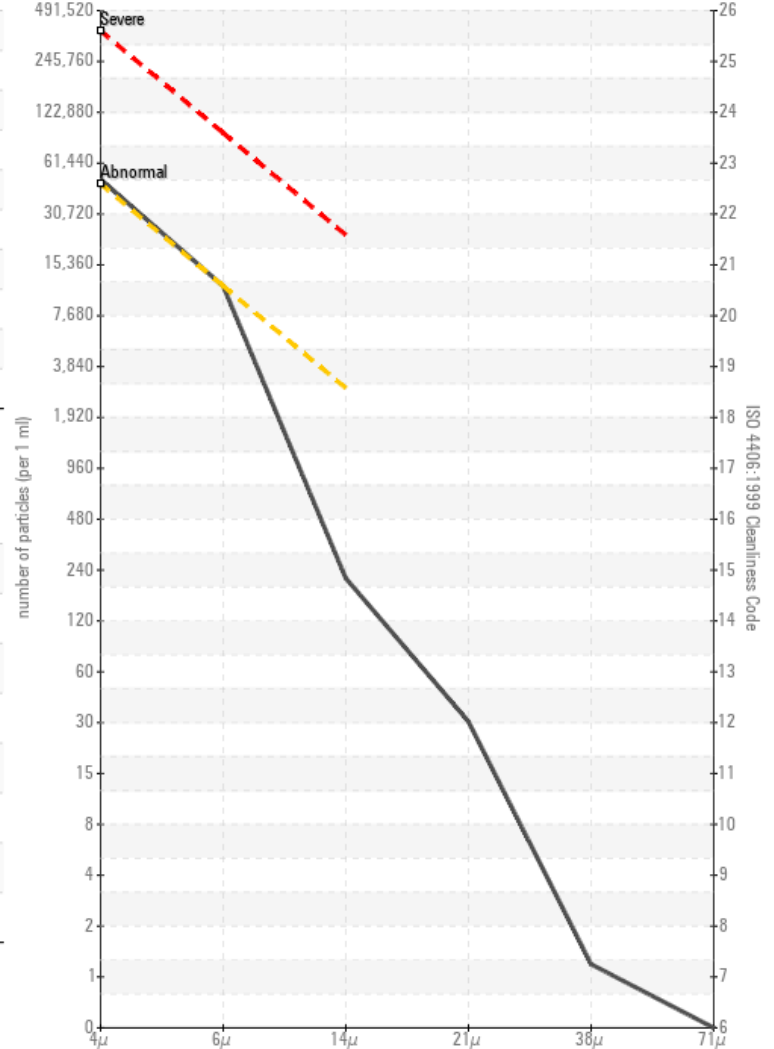
Ferrous Alloys



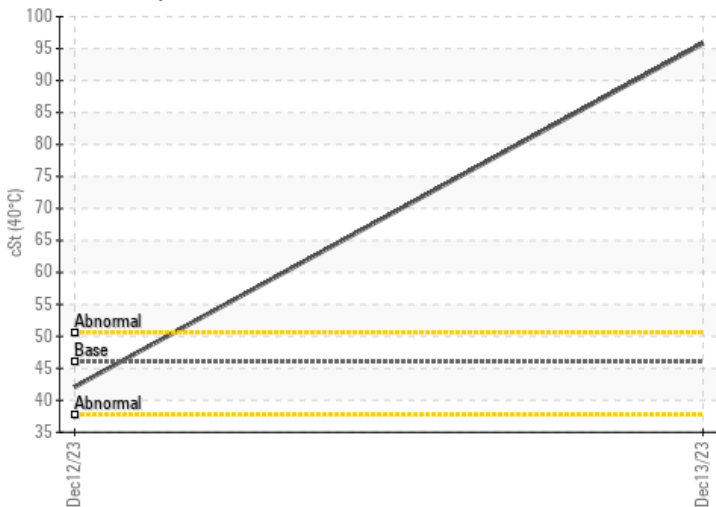
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number

