



CONSTRUCTION EQUIPMENT

565120 ACEROS USA VOLVO L220H 3391 - HYDRAULIC SYSTEM



Sample No: VCP424435
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 565120 ACEROS USA



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
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SAMPLE INFORMATION

Sample Number	VCP424435	---	---	---
Sample Date	02 Jun 2023	---	---	---
Machine Hours	1016	---	---	---
Oil Hours	1016	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	█ 43.1	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.33	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 18233	---	---	---
Particles >6µm		▲ 5718	---	---	---
Particles >14µm		● 707	---	---	---
ISO 4406:1999 (c)		21/20/17	---	---	---
Silicon	ppm	█ <1	---	---	---
Sodium	ppm	█ <1	---	---	---
Potassium	ppm	█ 0	---	---	---



WEAR METALS

Iron	ppm	█ 1	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 61	---	---	---
Magnesium	ppm	█ 0	---	---	---
Zinc	ppm	█ 421	---	---	---
Phosphorus	ppm	█ 338	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: VOLVO0093
Unique No: 10525834
Signed: Wes Davis
Report Date: 24 Jun 2023



CONSTRUCTION EQUIPMENT

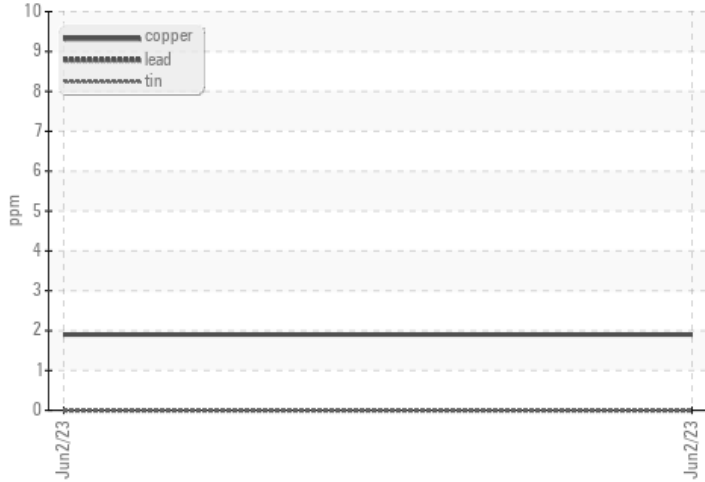


GRAPHS

Ferrous Alloys



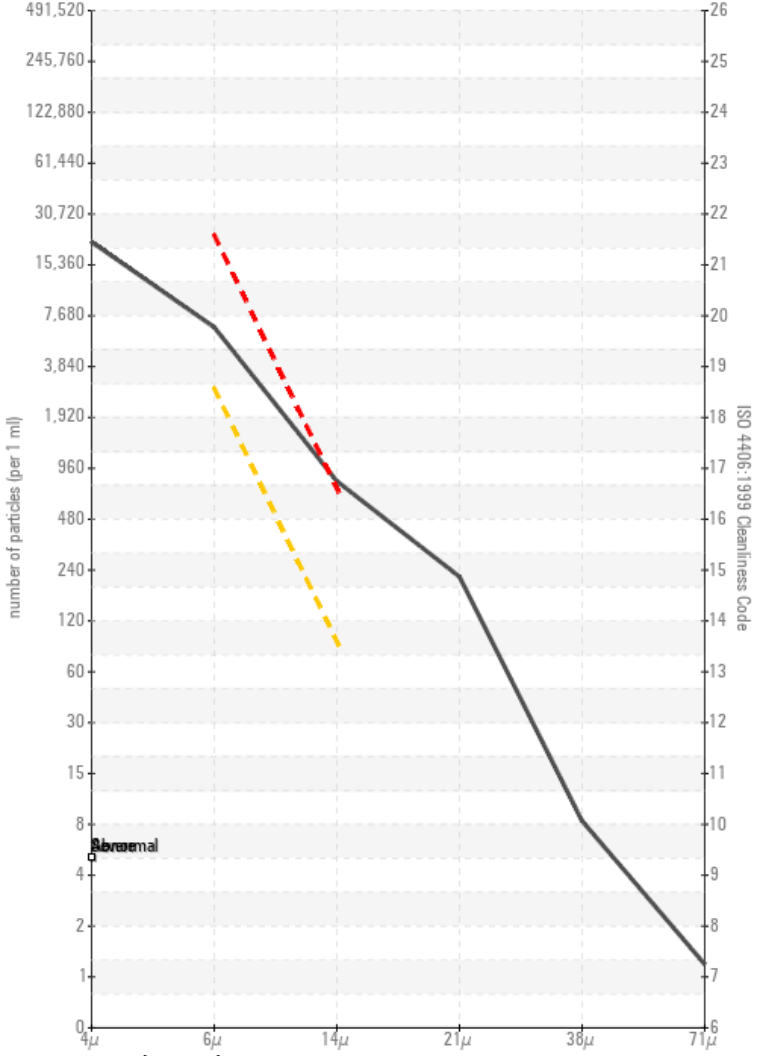
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

