



CONSTRUCTION EQUIPMENT

VOLVO 480 315167 - HYDRAULIC SYSTEM



Sample No: VCP428730
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP428730	VCP415605	---	---
Sample Date	19 Dec 2023	01 Jun 2023	---	---
Machine Hours	1494	518	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	SEVERE	ABNORMAL	---	---

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
 9601 BOGGY CREEK RD
 ORLANDO, FL
 US 32824
 Contact: Robert LaPlante
 robert.laplante@altg.com
 T: (407)508-9736
 F: (407)659-8720



OIL CONDITION

Visc @ 40°C	cSt	█ 41.7	█ 42.4	---	---
Acid Number (AN)	mg KOH/g	█ 0.32	█ 0.51	---	---



CONTAMINATION

Water	%	NEG	▲ 0.510	---	---
Particles >4µm		● 84007	---	---	---
Particles >6µm		● 15700	---	---	---
Particles >14µm		▲ 724	---	---	---
ISO 4406:1999 (c)		24/21/17	---	---	---
Silicon	ppm	█ 5	█ 3	---	---
Sodium	ppm	█ 3	█ <1	---	---
Potassium	ppm	█ 2	█ <1	---	---

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.



WEAR METALS

Iron	ppm	█ 9	█ 5	---	---
Copper	ppm	█ 23	█ 13	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 2	█ 1	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ <1	█ 0	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 58	█ 98	---	---
Magnesium	ppm	█ 5	█ 4	---	---
Zinc	ppm	█ 244	█ 520	---	---
Phosphorus	ppm	█ 341	█ 441	---	---
Barium	ppm	█ 0	█ 2	---	---
Boron	ppm	█ 0	█ 0	---	---

Depot: VOLVO0096
Unique No: 10803725
Signed: Wes Davis
Report Date: 26 Dec 2023

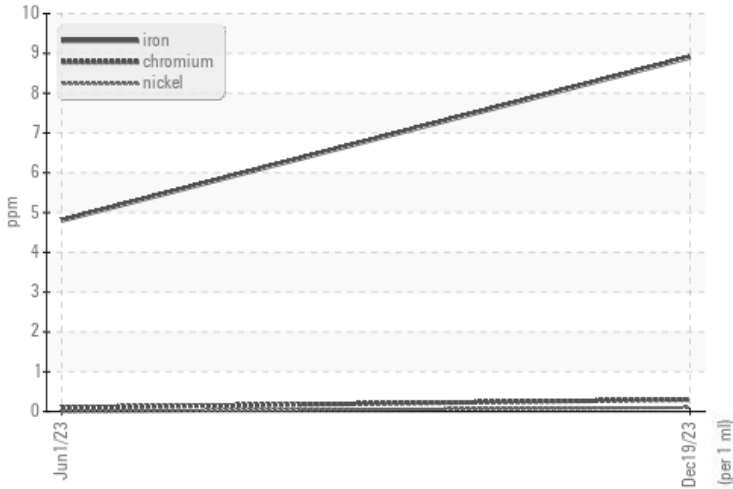


CONSTRUCTION EQUIPMENT

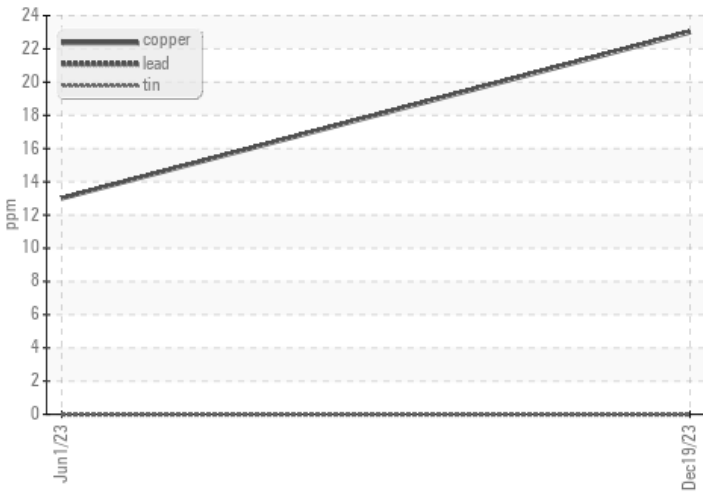


GRAPHS

Ferrous Alloys



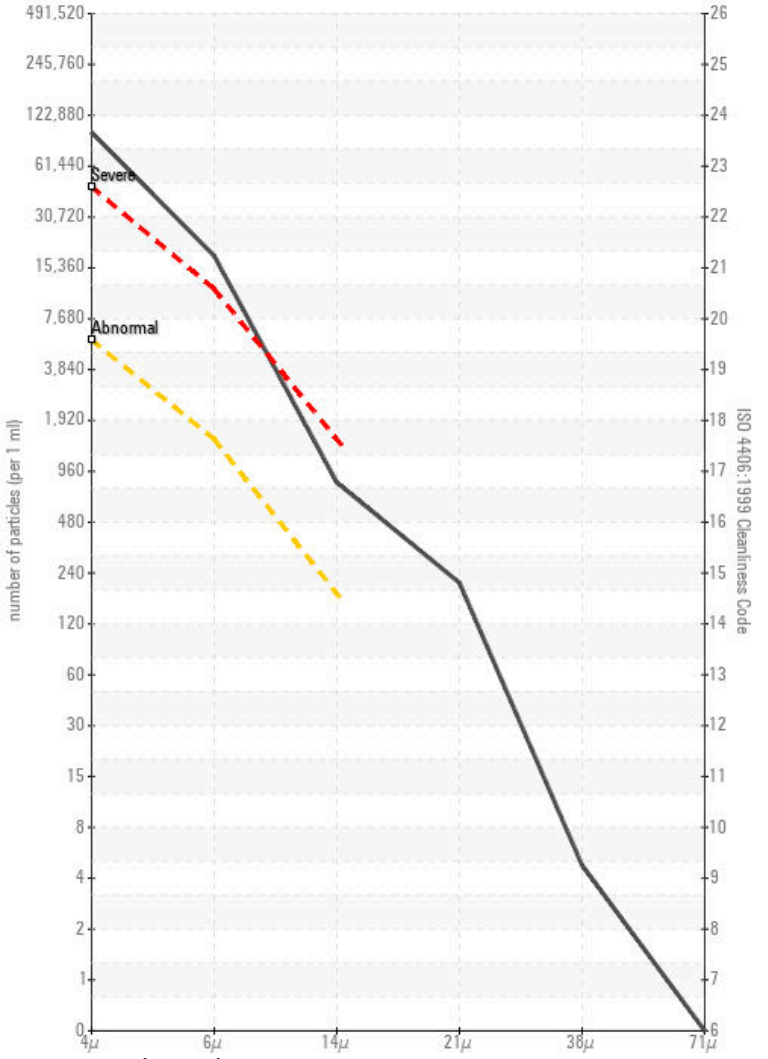
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

