



CONSTRUCTION EQUIPMENT

674462 MOSAIC VOLVO L110H 12152 - HYDRAULIC SYSTEM



Sample No: VCP440033
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 674462 MOSAIC



SAMPLE INFORMATION

Sample Number	VCP440033	VCP416013	VCP375933	VCP327619
Sample Date	16 Feb 2024	27 Jun 2023	17 Jun 2022	30 Sep 2021
Machine Hours	6265	5254	3476	2308
Oil Hours	2000	3000	3476	1500
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	SEVERE	ABNORMAL	NORMAL	ABNORMAL

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 john.fardella@altg.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 40°C	cSt	46.3	46.3	49.4	49.5
Acid Number (AN)	mg KOH/g	0.39	0.41	0.53	0.576



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		35290	22171	13056	18935
Particles >6µm		▲ 11664	▲ 5219	■ 1299	▲ 5729
Particles >14µm		● 1098	▲ 333	■ 23	▲ 436
ISO 4406:1999 (c)		22/21/17	22/20/16	21/17/12	21/20/16
Silicon	ppm	■ 6	■ 5	■ 4	■ 3
Sodium	ppm	■ 0	■ 0	■ 0	■ 2
Potassium	ppm	■ <1	■ <1	■ 0	■ 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.



WEAR METALS

Iron	ppm	■ 11	■ 8	■ 6	■ 4
Copper	ppm	■ 3	■ 2	■ 2	■ 3
Lead	ppm	■ 3	■ 2	■ 2	■ 2
Tin	ppm	■ <1	■ 0	■ <1	■ 0
Aluminum	ppm	■ <1	■ <1	■ <1	■ <1
Chromium	ppm	■ 2	■ 1	■ 1	■ 1
Molybdenum	ppm	■ 15	■ 15	■ 1	■ 1
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	<1	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	■ <1	■ 0	■ 0	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	563	640	915	■ 760
Magnesium	ppm	■ 16	■ 17	■ 13	■ 6
Zinc	ppm	■ 503	■ 544	■ 565	■ 486
Phosphorus	ppm	■ 358	■ 424	■ 432	■ 384
Barium	ppm	■ 5	■ 2	■ 0	■ 0
Boron	ppm	■ 5	■ 4	■ 2	■ 0

Depot: VOLVO0093
Unique No: 10896525
Signed: Wes Davis
Report Date: 26 Feb 2024

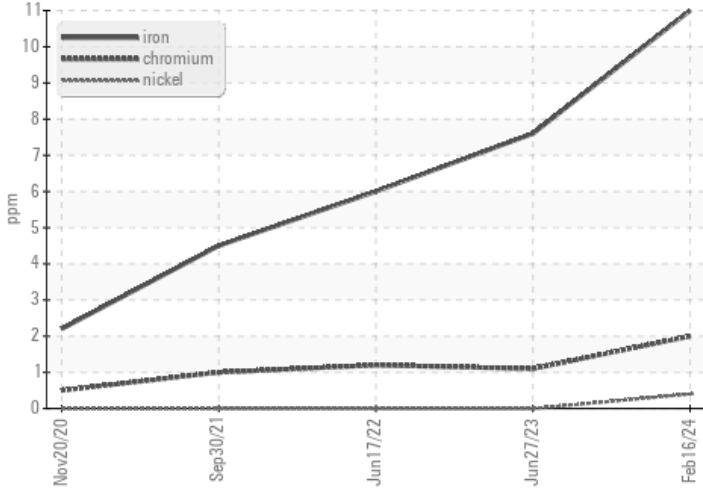


CONSTRUCTION EQUIPMENT

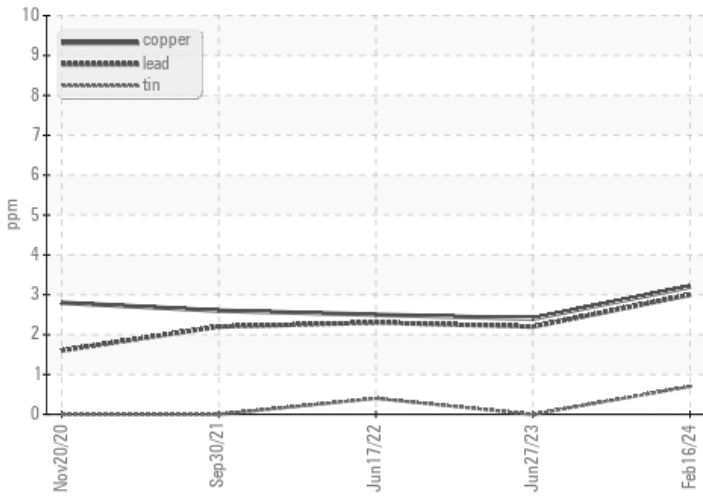


GRAPHS

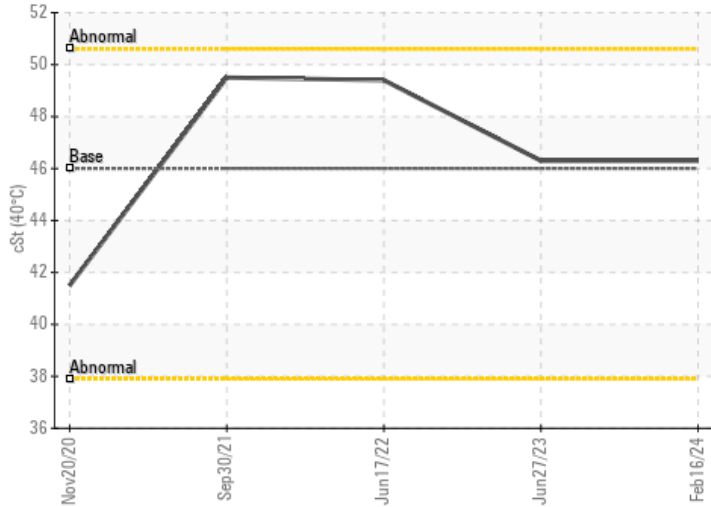
Ferrous Alloys



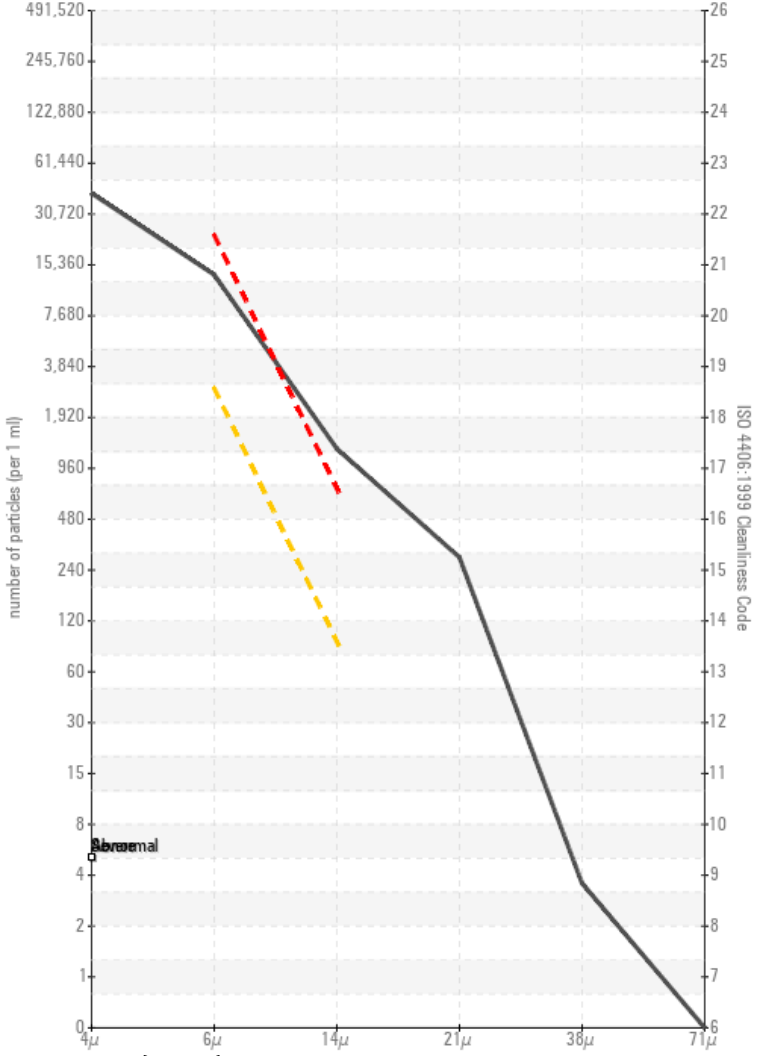
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

