



CONSTRUCTION EQUIPMENT

567478 MOSAIC VOLVO L110H 12152 - HYDRAULIC SYSTEM



Sample No: VCP416013
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 567478 MOSAIC



SAMPLE INFORMATION

Sample Number	VCP416013	VCP375933	VCP327619	VCP296748
Sample Date	27 Jun 2023	17 Jun 2022	30 Sep 2021	20 Nov 2020
Machine Hours	5254	3476	2308	1057
Oil Hours	3000	3476	1500	1057
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	46.3	49.4	49.5	41.5
Acid Number (AN)	mg KOH/g	0.41	0.53	0.576	0.417



CONTAMINATION

Particles >4µm		22171	13056	18935	2726
Particles >6µm		5219	1299	5729	345
Particles >14µm		333	23	436	47
ISO 4406:1999 (c)		22/20/16	21/17/12	21/20/16	19/16/13
Silicon	ppm	5	4	3	3
Sodium	ppm	0	0	2	1
Potassium	ppm	<1	0	0	0



WEAR METALS

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



ADDITIVES

Calcium	ppm	640	915	760	41
Magnesium	ppm	17	13	6	<1
Zinc	ppm	544	565	486	409
Phosphorus	ppm	424	432	384	302
Barium	ppm	2	0	0	0
Boron	ppm	4	2	0	<1

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate 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: 10574254
Signed: Wes Davis
Report Date: 27 Jul 2023

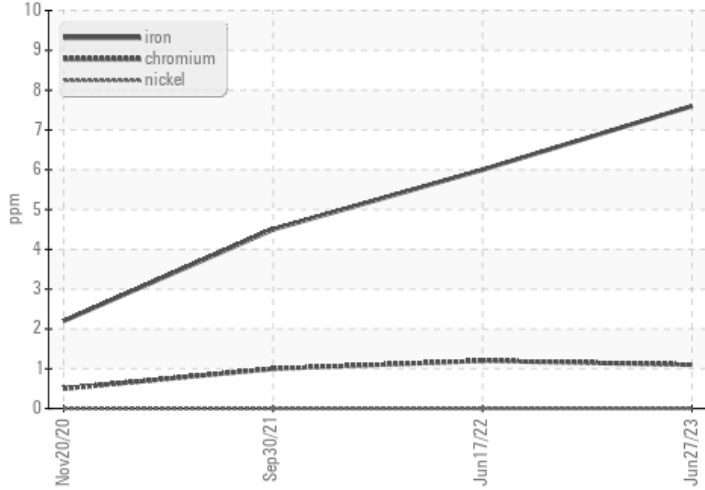


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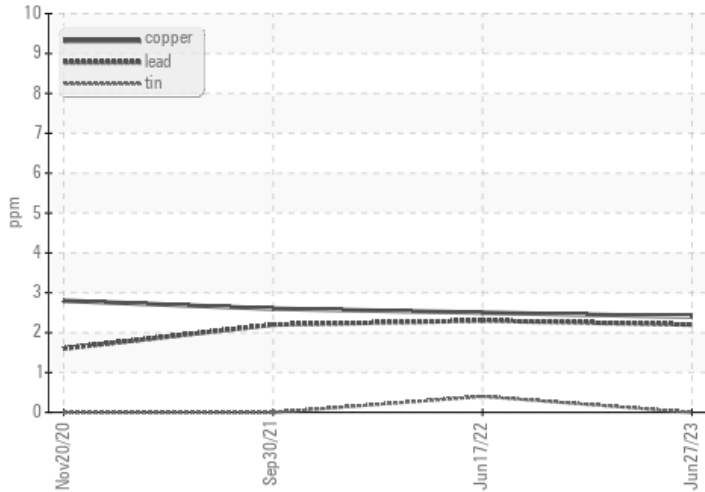


GRAPHS

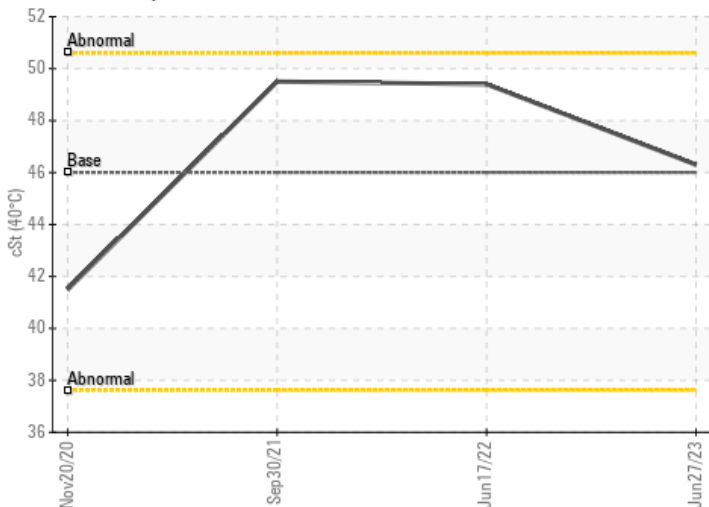
Ferrous Alloys



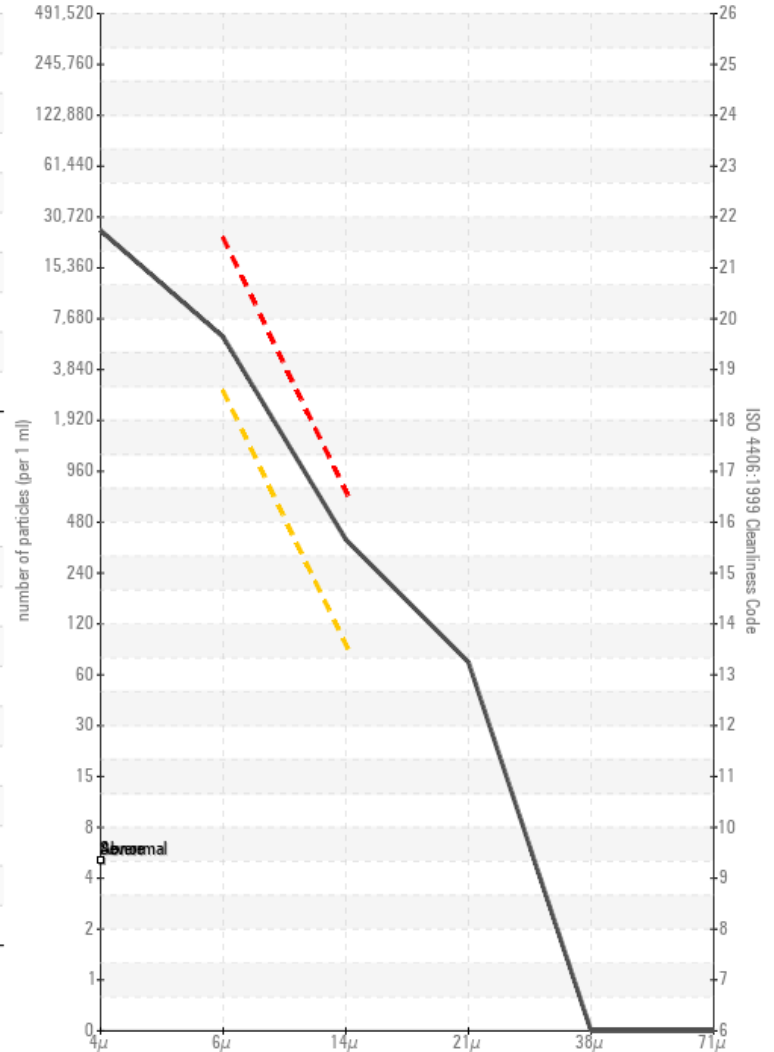
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

