



CONSTRUCTION EQUIPMENT

W14408 VOLVO L110H 631820 - HYDRAULIC SYSTEM



Sample No: VCP424370
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: W14408



SAMPLE INFORMATION

Sample Number	VCP424370	VCP402361	VCP367735	VCP374253
Sample Date	10 Jul 2023	11 Apr 2023	09 Jan 2023	10 Jun 2022
Machine Hours	5538	5083	4597	3617
Oil Hours	500	500	4000	1500
Oil Changed	Not Changd	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	NORMAL	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.0	42.6	42.2	42.3
Acid Number (AN)	mg KOH/g	0.29	0.27	0.17	0.20

CONTAMINATION

Particles >4µm		2947	5213	11173	13618
Particles >6µm		1047	1127	1857	3716
Particles >14µm		129	38	152	382
ISO 4406:1999 (c)		19/17/14	20/17/12	21/18/14	21/19/16
Silicon	ppm	3	3	4	5
Sodium	ppm	2	<1	2	2
Potassium	ppm	2	<1	<1	0

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 condition of the oil is suitable for further service.

WEAR METALS

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

ADDITIVES

Calcium	ppm	133	130	126	131
Magnesium	ppm	4	10	0	3
Zinc	ppm	361	360	195	229
Phosphorus	ppm	406	391	422	435
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	1

Depot: VOLVO0080
Unique No: 10562577
Signed: Wes Davis
Report Date: 19 Jul 2023

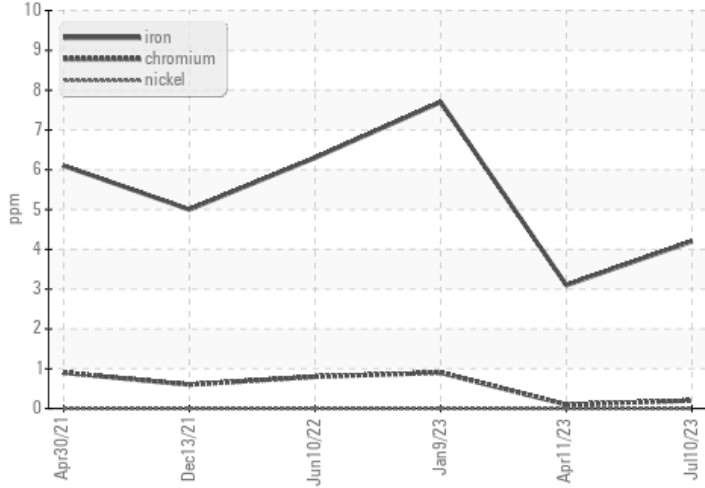


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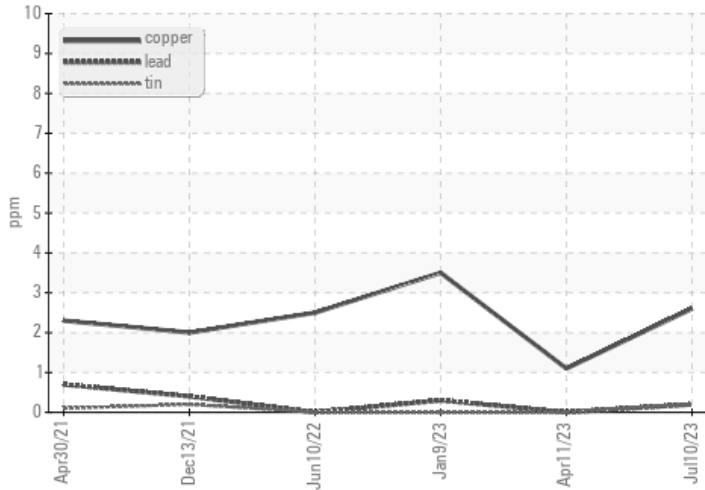


VOLVO GRAPHS

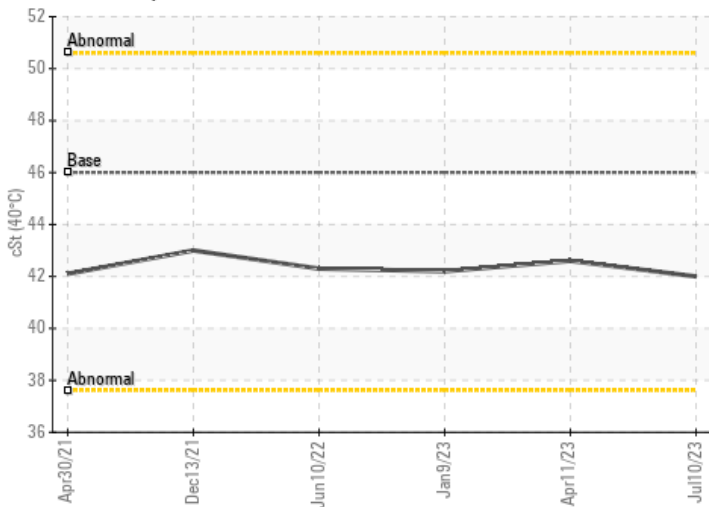
Ferrous Alloys



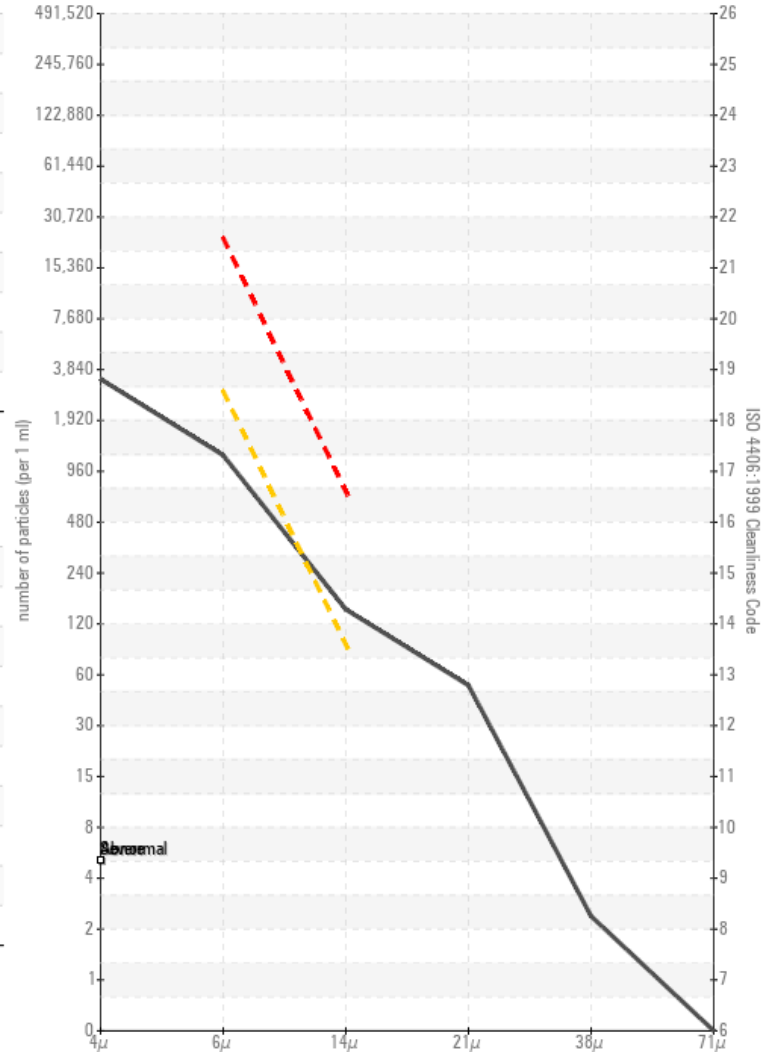
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

