



CONSTRUCTION EQUIPMENT

VOLVO L110H 631211 - HYDRAULIC SYSTEM



Sample No: VCP422690
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP422690	VCP390729	VCP336912	VCP306460
Sample Date	08 Aug 2023	06 Sep 2022	17 Nov 2021	26 Feb 2021
Machine Hours	10121	8781	7374	5905
Oil Hours	0	4000	1500	1000
Oil Changed	Not Changd	Changed	Not Changd	Changed
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	46.5	50.2	51.0	63.3
Acid Number (AN)	mg KOH/g	0.36	0.32	0.357	0.324



CONTAMINATION

Particles >4µm		42395	6884	---	8224
Particles >6µm		15735	807	---	1415
Particles >14µm		1857	63	---	186
ISO 4406:1999 (c)		23/21/18	20/17/13	---	20/18/15
Silicon	ppm	6	6	14	3
Sodium	ppm	2	1	<1	0
Potassium	ppm	1	<1	0	<1

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	5	3	6	1
Copper	ppm	2	2	3	1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	3	4	11	0
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	3	<1	<1	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	<1	1	0	0



ADDITIVES

Calcium	ppm	123	55	72	97
Magnesium	ppm	7	0	3	2
Zinc	ppm	397	405	396	441
Phosphorus	ppm	331	329	296	331
Barium	ppm	0	0	0	0
Boron	ppm	3	0	0	<1

Depot: VOLVO0093
Unique No: 10609483
Signed: Angela Borella
Report Date: 22 Aug 2023

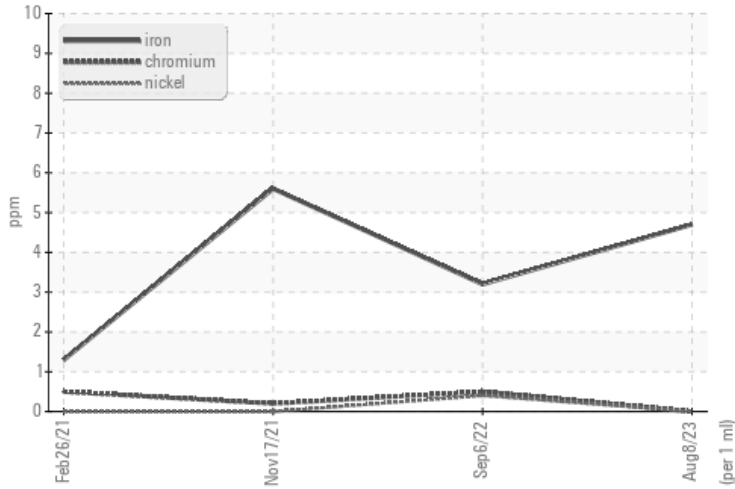


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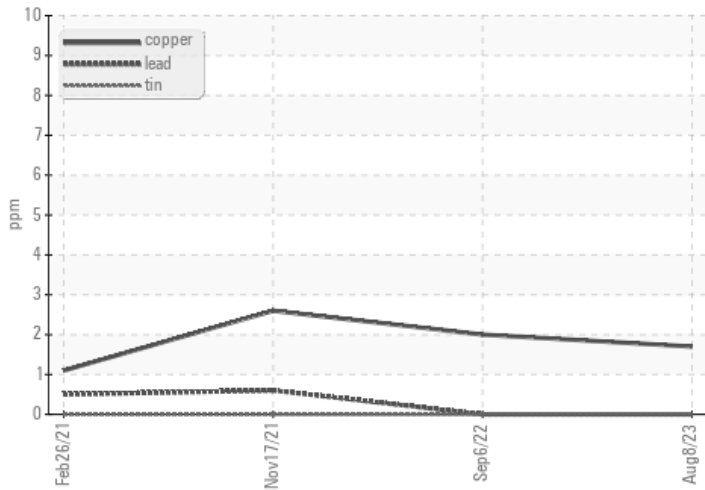


GRAPHS

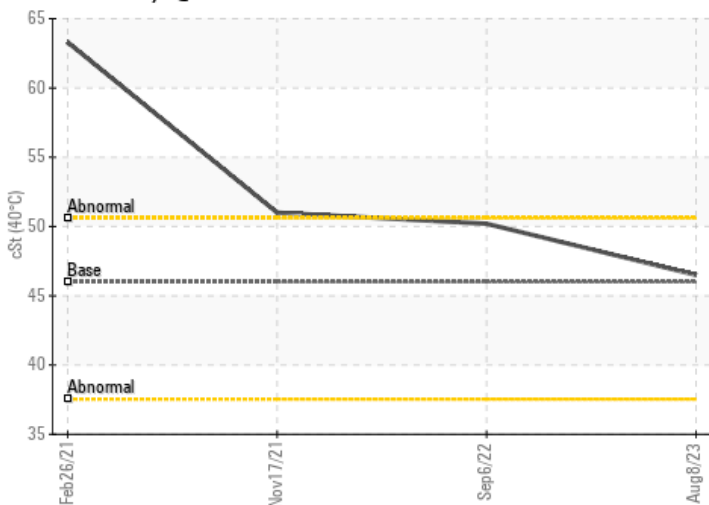
Ferrous Alloys



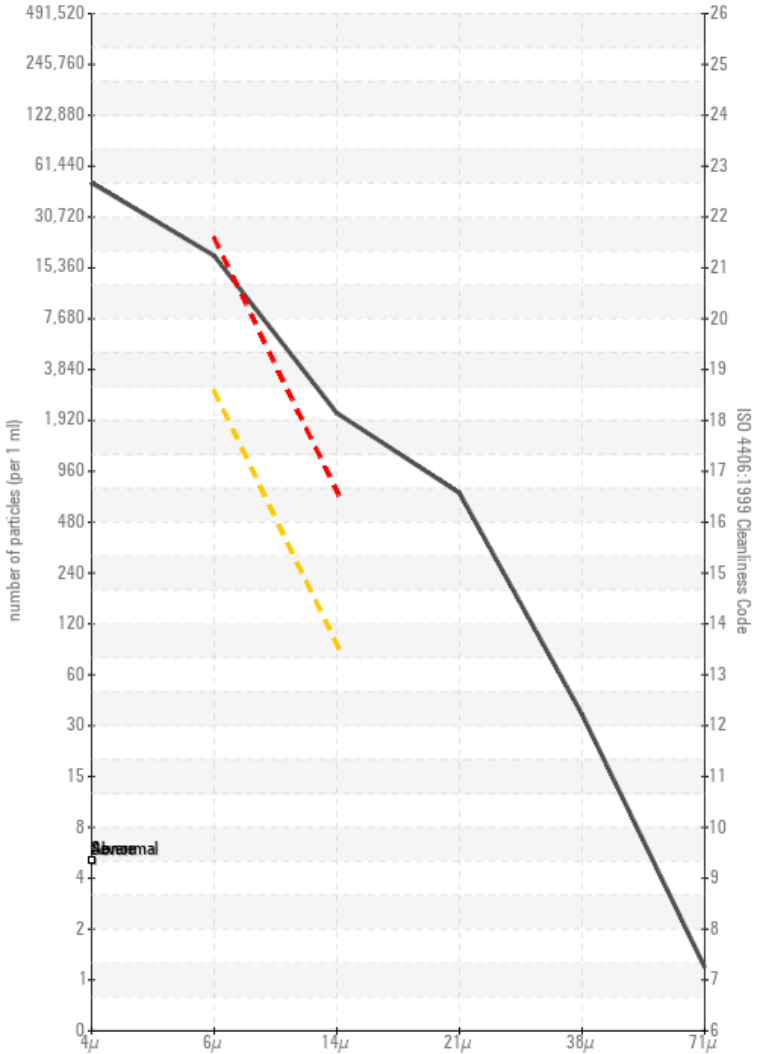
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

