



CONSTRUCTION EQUIPMENT

SW1022819 MGC VOLVO L110H 631286 - HYDRAULIC SYSTEM



Sample No: VCP414446
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SW1022819 MGC



SAMPLE INFORMATION

Sample Number	VCP414446	VCP346209	VCP308564	VCP267104
Sample Date	24 Aug 2023	18 May 2022	16 Apr 2021	07 Apr 2020
Machine Hours	4459	3940	3421	2937
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	ATTENTION	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	39.9	39.7	40.0	39.9
Acid Number (AN)	mg KOH/g	0.36	0.38	0.340	0.405

CONTAMINATION

Particles >4µm		26632	15976	7181	3527
Particles >6µm		7641	4139	1617	776
Particles >14µm		383	147	89	33
ISO 4406:1999 (c)		22/20/16	21/19/14	20/18/14	19/17/12
Silicon	ppm	4	3	4	4
Sodium	ppm	4	<1	3	2
Potassium	ppm	2	2	<1	1

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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 suitable for further service.

WEAR METALS

Iron	ppm	8	8	8	7
Copper	ppm	6	6	6	6
Lead	ppm	3	3	3	3
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	4	4	4	3
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	67	54	61	61
Magnesium	ppm	4	<1	2	<1
Zinc	ppm	453	472	442	491
Phosphorus	ppm	345	343	323	357
Barium	ppm	0	0	0	0
Boron	ppm	0	0	3	10

Depot: VOLVO6174
Unique No: 10630763
Signed: Don Baldrige
Report Date: 05 Sep 2023

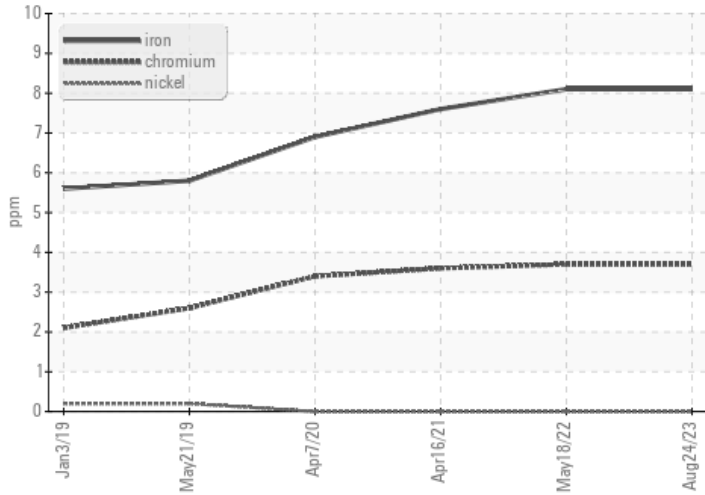


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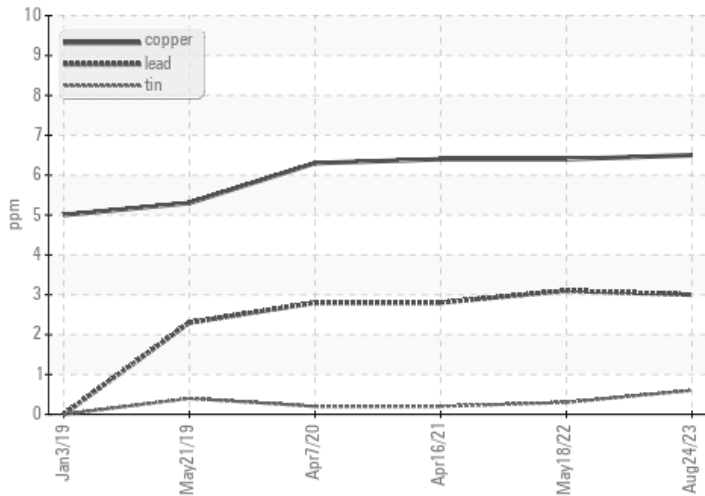


VOLVO GRAPHS

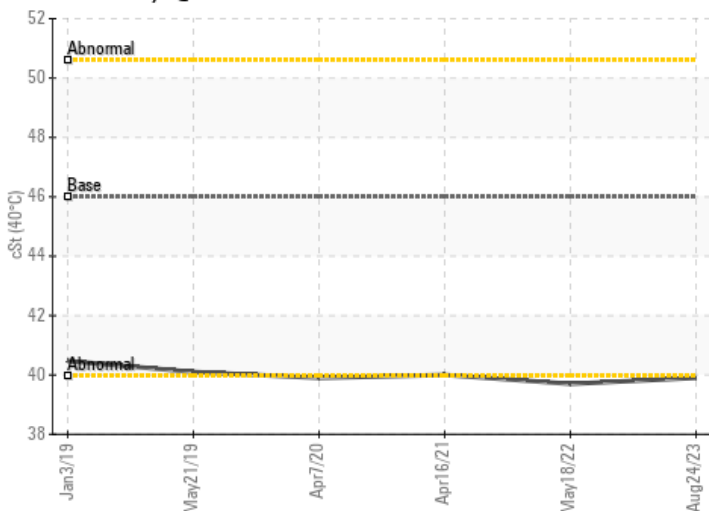
Ferrous Alloys



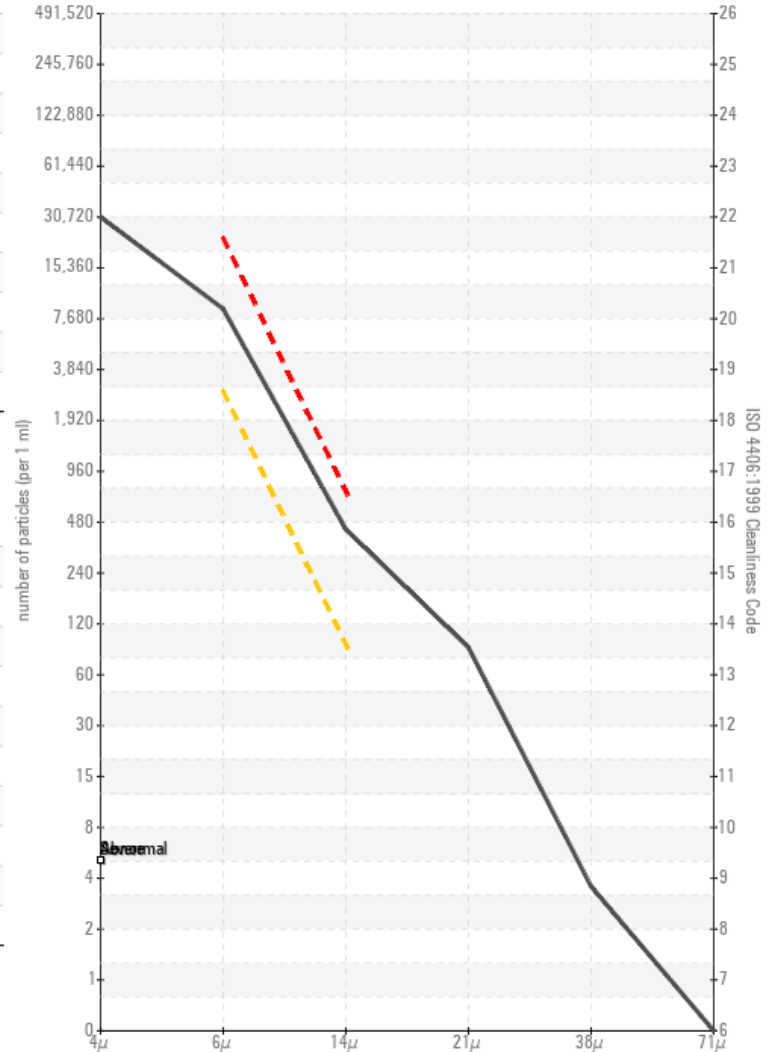
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

