



CONSTRUCTION EQUIPMENT

SW1023773 IAA 8 VOLVO L90H 625149 - HYDRAULIC SYSTEM



Sample No: VCP412543
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SW1023773 IAA 8



SAMPLE INFORMATION

Sample Number	VCP412543	VCP390402	VCP320152	VCP291116
Sample Date	07 Sep 2023	28 Nov 2022	23 Sep 2021	09 Nov 2020
Machine Hours	8295	6675	4067	2401
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.4	42.2	42.8	42.5
Acid Number (AN)	mg KOH/g	0.40	0.42	0.329	0.390

CONTAMINATION

Particles >4µm		4943	16494	9459	12060
Particles >6µm		1534	5400	2565	2683
Particles >14µm		81	495	215	220
ISO 4406:1999 (c)		19/18/14	21/20/16	20/19/15	21/19/15
Silicon	ppm	3	4	3	5
Sodium	ppm	5	<1	2	0
Potassium	ppm	1	0	0	<1

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 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	12	16	11	10
Copper	ppm	3	2	2	4
Lead	ppm	0	0	1	2
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	0	0	<1	0
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	101	138	131	154
Magnesium	ppm	13	4	5	8
Zinc	ppm	484	451	474	459
Phosphorus	ppm	409	360	358	340
Barium	ppm	0	4	0	0
Boron	ppm	1	2	2	3

Depot: VOLVO6174
Unique No: 10646034
Signed: Wes Davis
Report Date: 15 Sep 2023

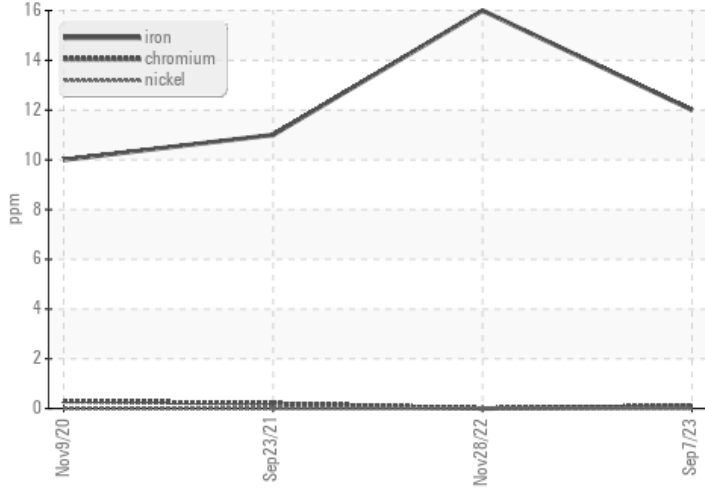


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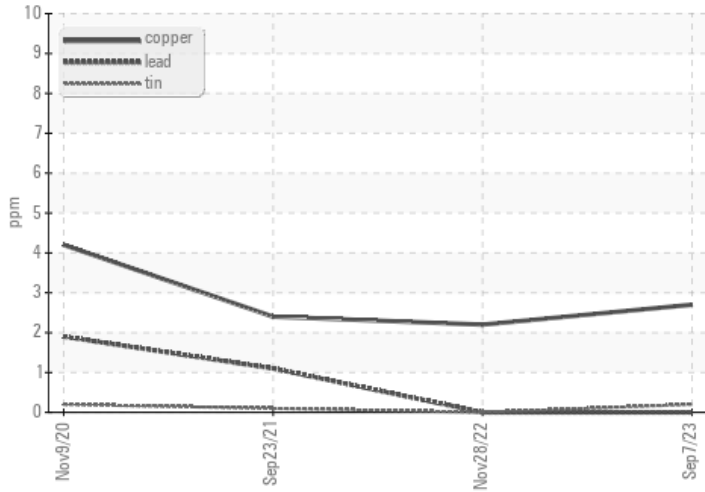


GRAPHS

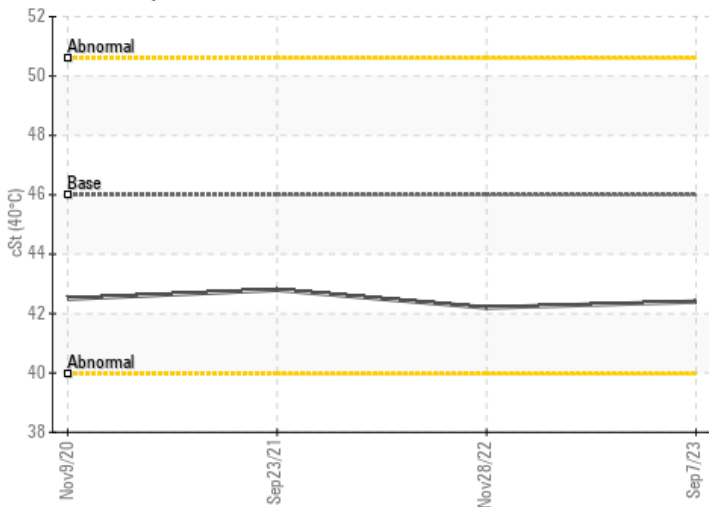
Ferrous Alloys



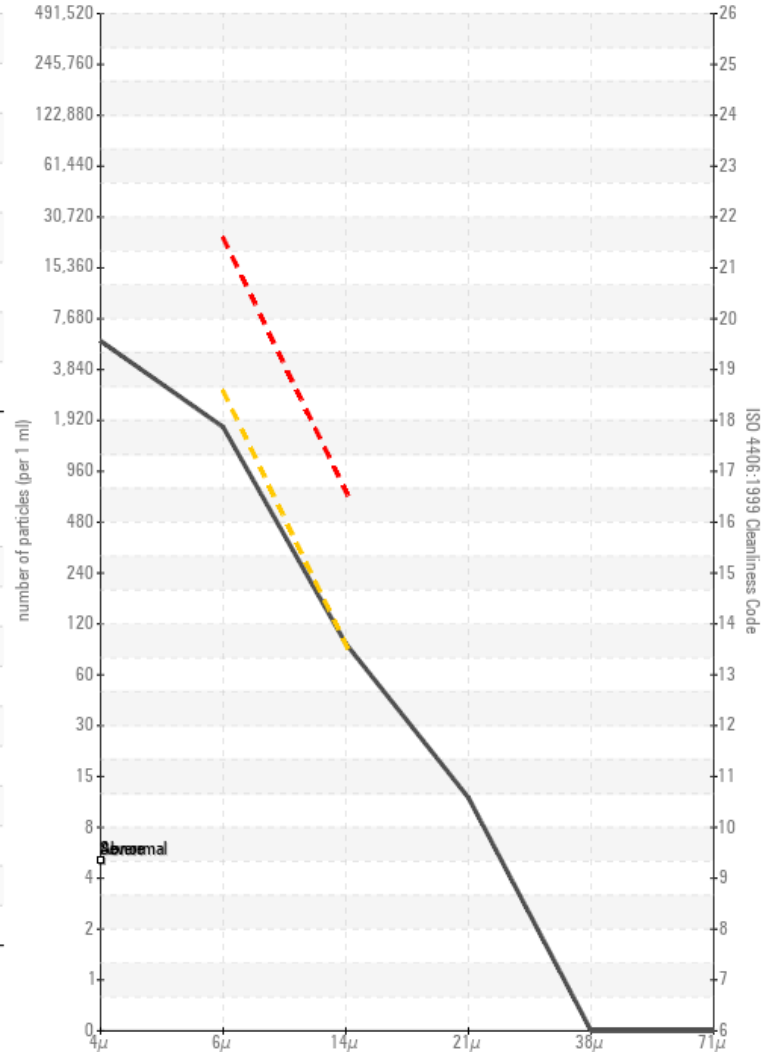
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

