



CONSTRUCTION EQUIPMENT

SPM621718 SMS VOLVO L110H 631686 - HYDRAULIC SYSTEM



Sample No: VCP429893
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM621718 SMS



SAMPLE INFORMATION

Sample Number	VCP429893	VCP422578	VCP399497	---
Sample Date	02 Nov 2023	06 Jul 2023	03 Feb 2023	---
Machine Hours	4039	3075	2551	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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 5000 INDUSTRIAL HWY
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 F:

OIL CONDITION

Visc @ 40°C	cSt	40.2	41.6	42.3	---
Acid Number (AN)	mg KOH/g	0.37	0.26	0.30	---

CONTAMINATION

Particles >4µm		3287	2699	21056	---
Particles >6µm		771	506	4580	---
Particles >14µm		42	31	235	---
ISO 4406:1999 (c)		19/17/13	19/16/12	22/19/15	---
Silicon	ppm	1	2	2	---
Sodium	ppm	1	0	0	---
Potassium	ppm	<1	<1	0	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

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

ADDITIVES

Calcium	ppm	57	66	52	---
Magnesium	ppm	2	2	4	---
Zinc	ppm	410	466	392	---
Phosphorus	ppm	316	350	316	---
Barium	ppm	0	1	0	---
Boron	ppm	0	0	0	---

Depot: VOLVO8885
Unique No: 10737953
Signed: Wes Davis
Report Date: 13 Nov 2023

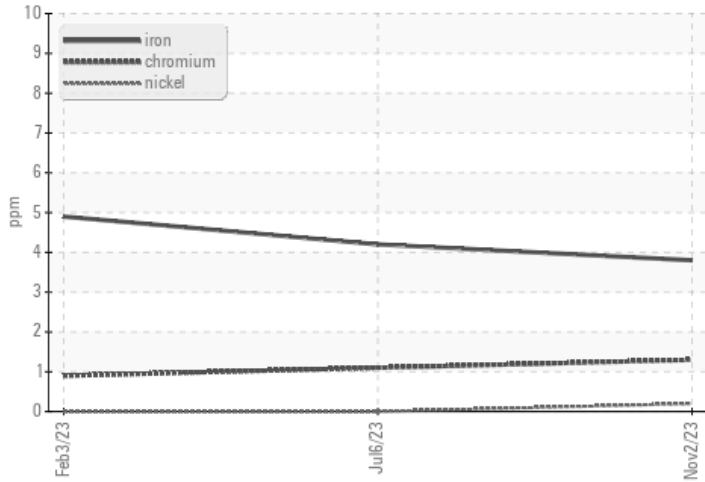


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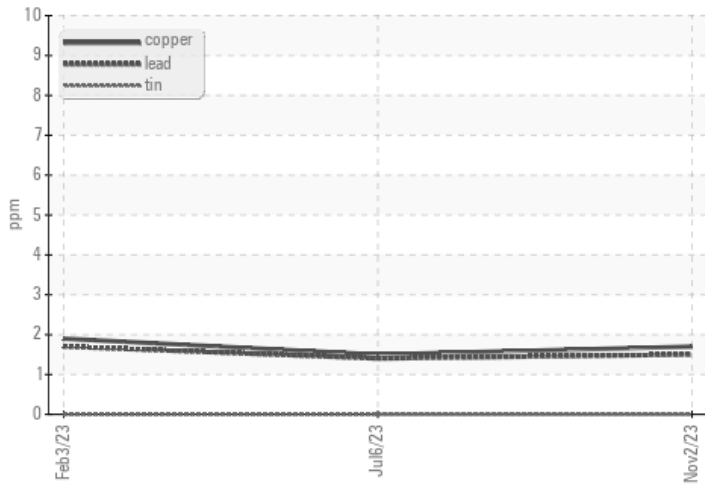


VOLVO GRAPHS

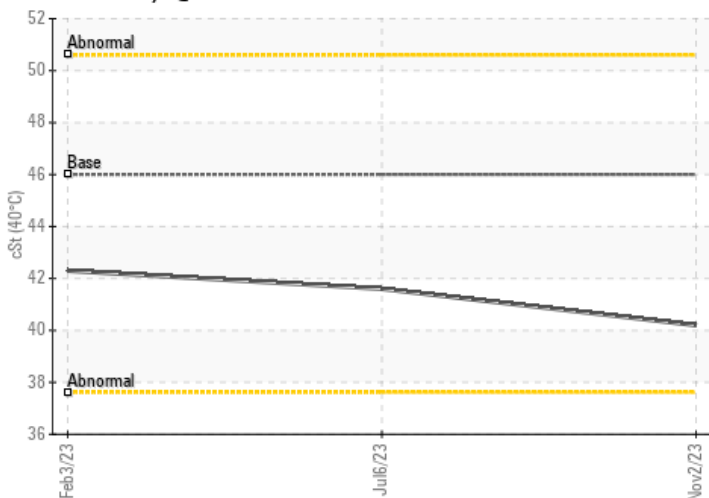
Ferrous Alloys



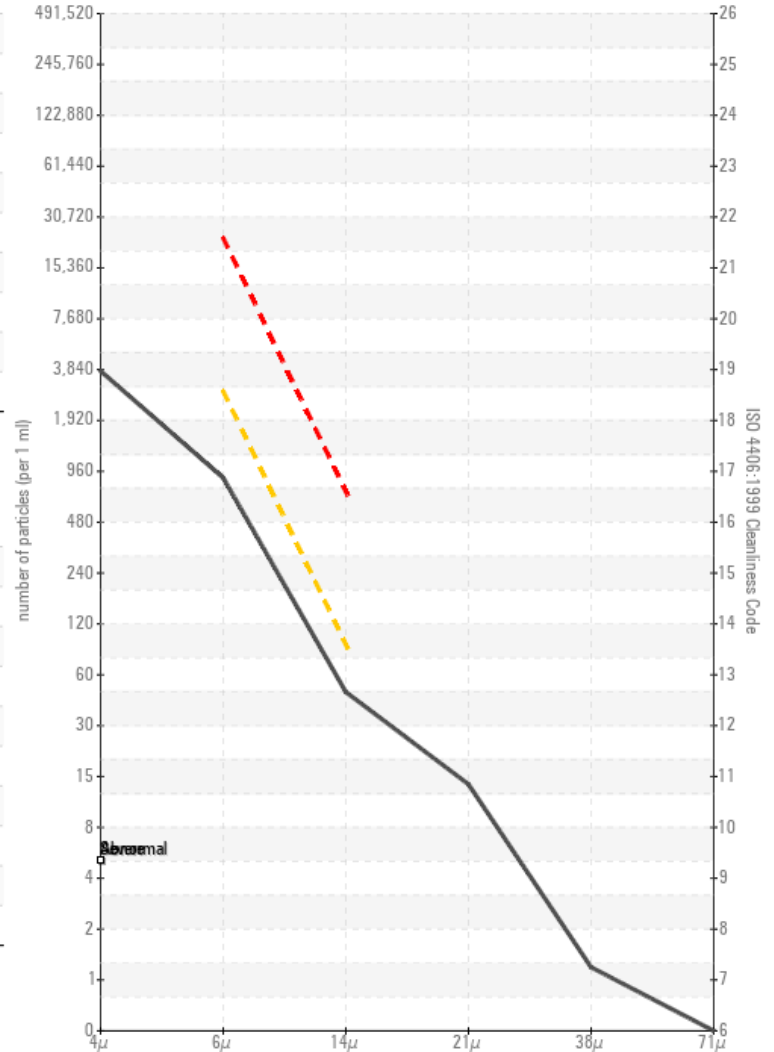
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

