



CONSTRUCTION EQUIPMENT

SPM568168 VOLVO L110H 631686 - HYDRAULIC SYSTEM



Sample No: VCP422578
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM568168



SAMPLE INFORMATION

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

ALTA EQUIPMENT CO - ORLAND PARK
5000 INDUSTRIAL HWY
GARY, IN
US 46406
Contact: DAVE ENG
DAVE.ENG@ALTG.COM
T: (312)350-2560
F:



OIL CONDITION

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



CONTAMINATION

Particles >4µm		█ 2699	21056	---	---
Particles >6µm		█ 506	▲ 4580	---	---
Particles >14µm		█ 31	▲ 235	---	---
ISO 4406:1999 (c)		█ 19/16/12	22/19/15	---	---
Silicon	ppm	█ 2	█ 2	---	---
Sodium	ppm	█ 0	█ 0	---	---
Potassium	ppm	█ <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	█ 5	---	---
Copper	ppm	█ 2	█ 2	---	---
Lead	ppm	█ 1	█ 2	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 0	█ <1	---	---
Chromium	ppm	█ 1	█ <1	---	---
Molybdenum	ppm	█ <1	█ 0	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 0	█ <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

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

Depot: VOLVO8885
Unique No: 10574237
Signed: Wes Davis
Report Date: 27 Jul 2023

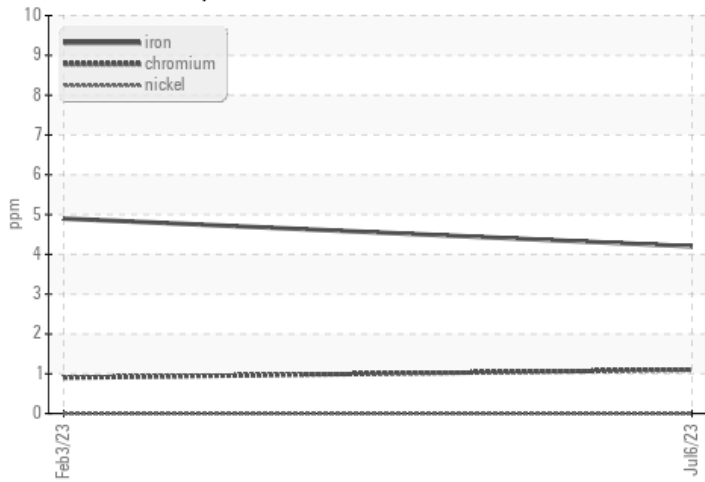


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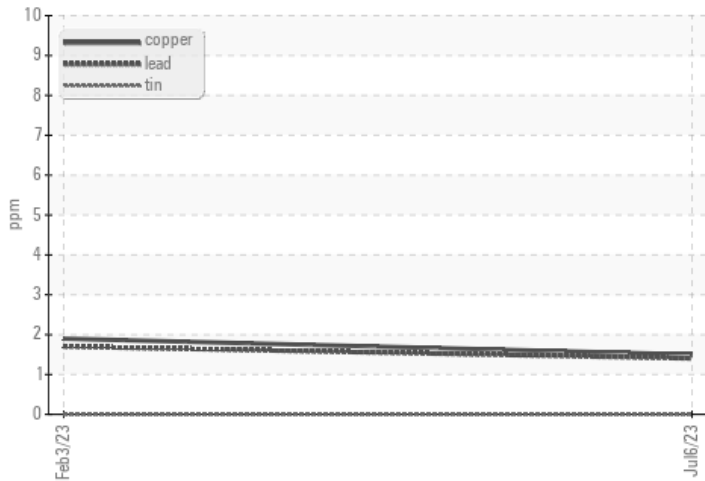


GRAPHS

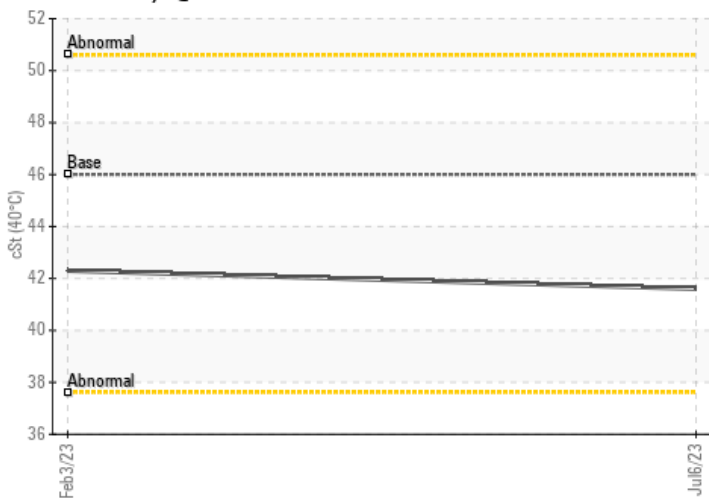
Ferrous Alloys



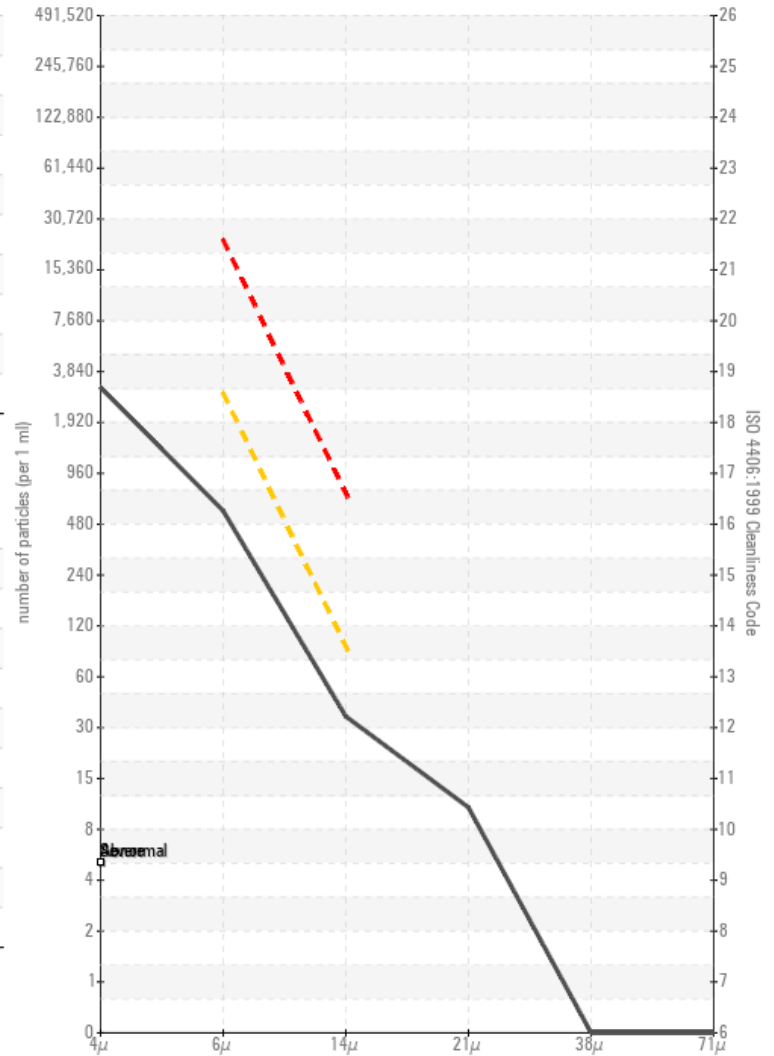
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

