



CONSTRUCTION EQUIPMENT

SPM568012 LEHIGH CEM VOLVO EC380E 310561 - HYDRAULIC SYSTEM



Sample No: VCP425448
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM568012 LEHIGH CEM



SAMPLE INFORMATION

Sample Number	VCP425448	VCP366198	VCP321801	---
Sample Date	28 Jun 2023	21 Sep 2022	18 Jun 2021	---
Machine Hours	2220	1868	1465	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	NORMAL	ATTENTION	ATTENTION	---

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OIL CONDITION

Visc @ 40°C	cSt	41.8	42.2	42.4	---
Acid Number (AN)	mg KOH/g	0.39	0.43	0.439	---



CONTAMINATION

Particles >4µm		15992	48399	48723	---
Particles >6µm		2601	1191	1554	---
Particles >14µm		110	32	33	---
ISO 4406:1999 (c)		21/19/14	23/17/12	23/18/12	---
Silicon	ppm	3	3	2	---
Sodium	ppm	1	0	0	---
Potassium	ppm	1	<1	<1	---

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	1	1	2	---
Copper	ppm	45	43	37	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	<1	<1	0	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	0	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	40	42	60	---
Magnesium	ppm	2	0	<1	---
Zinc	ppm	306	353	438	---
Phosphorus	ppm	380	353	390	---
Barium	ppm	<1	0	0	---
Boron	ppm	0	0	<1	---

Depot: VOLVO0093
Unique No: 10547073
Signed: Wes Davis
Report Date: 07 Jul 2023

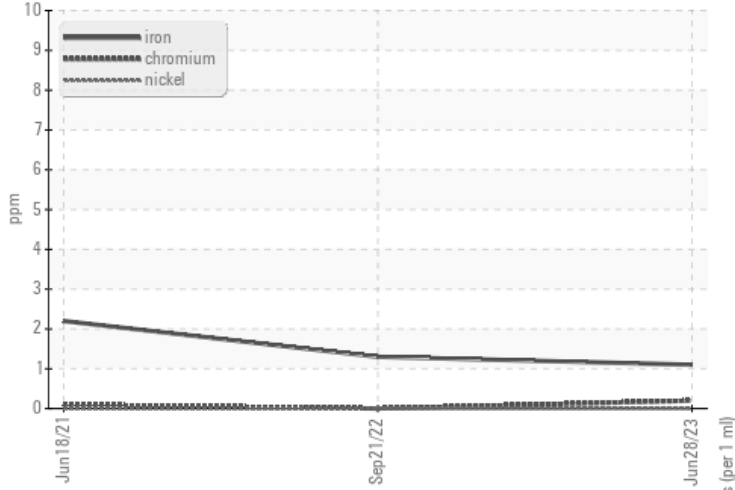


CONSTRUCTION EQUIPMENT

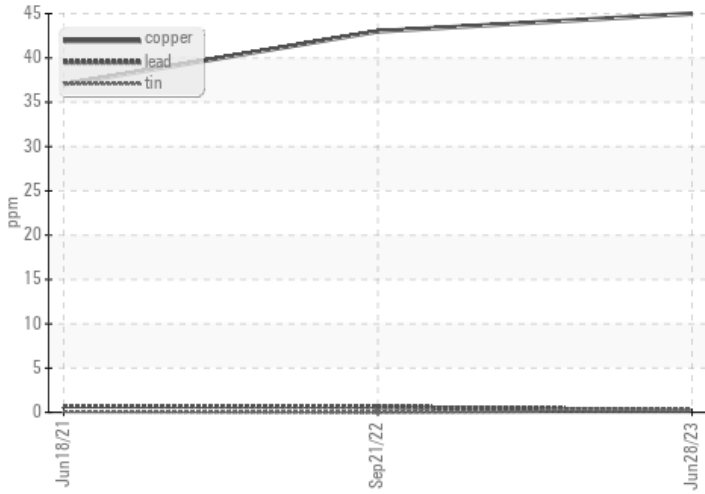


GRAPHS

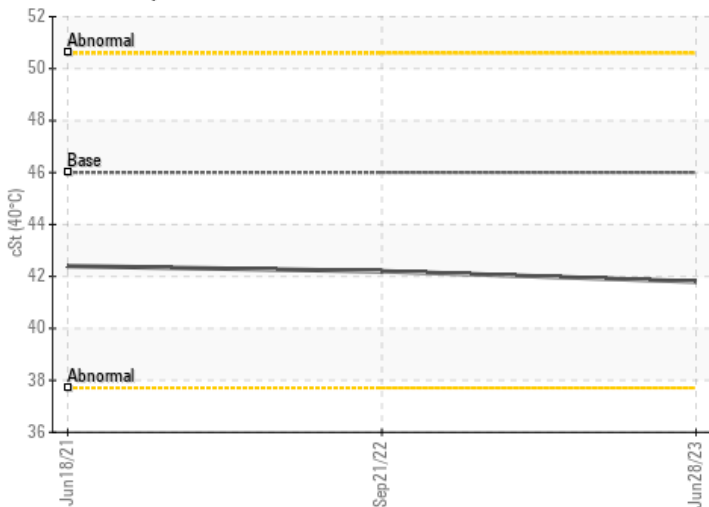
Ferrous Alloys



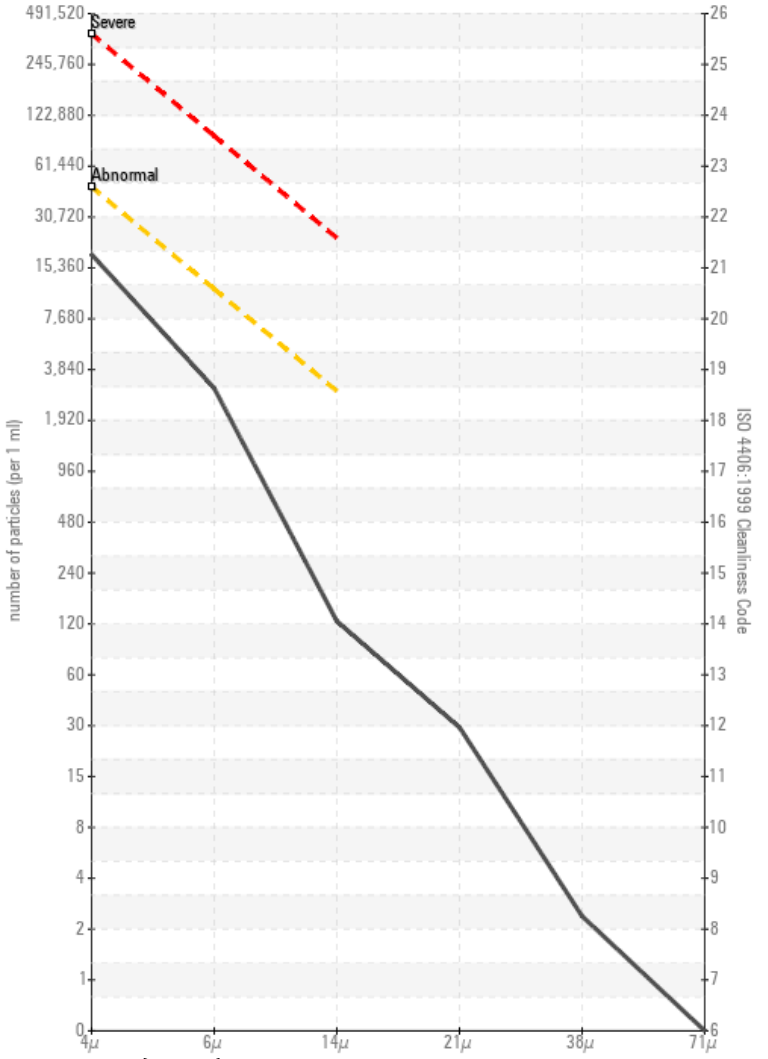
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

