



CONSTRUCTION EQUIPMENT

SWA240247 VOLVO EC220E 314443 - HYDRAULIC SYSTEM



Sample No: VCP405678
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA240247



SAMPLE INFORMATION

Sample Number	VCP405678	VCP376527	VCP372767	VCP347797
Sample Date	25 Apr 2023	26 Aug 2022	13 May 2022	12 Jan 2022
Machine Hours	3763	2623	2084	1501
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	N/A	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	SEVERE

ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
 Contact: JIM STRIGLE
 JIM.STRIGLE@ALTG.COM
 T: (315)437-2611
 F: (315)434-9471



OIL CONDITION

Visc @ 40°C	cSt	39.9	41.1	41.2	41.6
Acid Number (AN)	mg KOH/g	0.37	0.44	0.50	0.485



CONTAMINATION

Water	%	---	---	---	0.543
Particles >4µm		5306	20269	3771	---
Particles >6µm		263	1265	790	---
Particles >14µm		7	45	44	---
ISO 4406:1999 (c)		20/15/10	22/17/13	19/17/13	---
Silicon	ppm	4	4	4	5
Sodium	ppm	0	1	0	4
Potassium	ppm	0	0	0	<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	8	7	2	5
Copper	ppm	23	21	25	24
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	38	28	73	71
Magnesium	ppm	1	0	0	0
Zinc	ppm	404	390	507	418
Phosphorus	ppm	356	358	401	348
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	2

Depot: VOLV00142
Unique No: 10446065
Signed: Wes Davis
Report Date: 01 May 2023

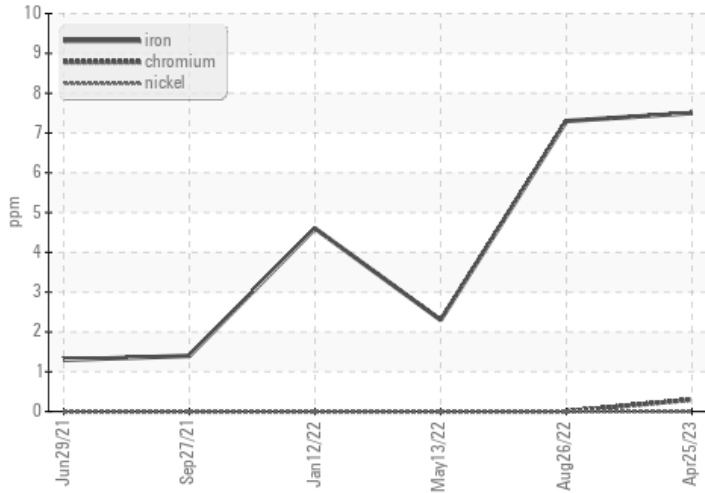


CONSTRUCTION EQUIPMENT

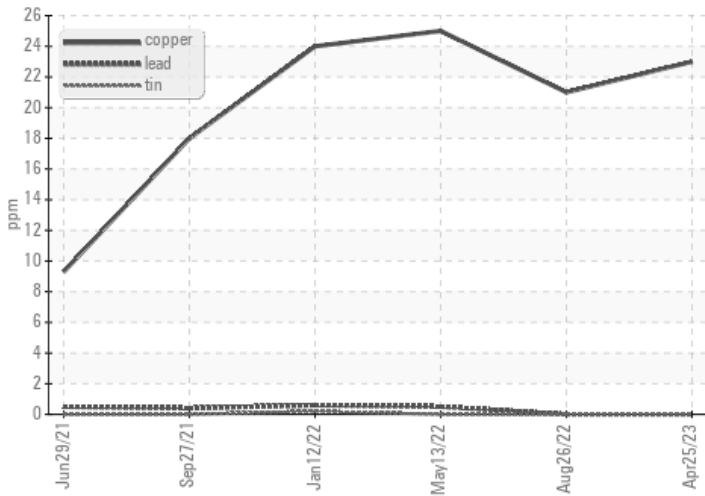


VOLVO GRAPHS

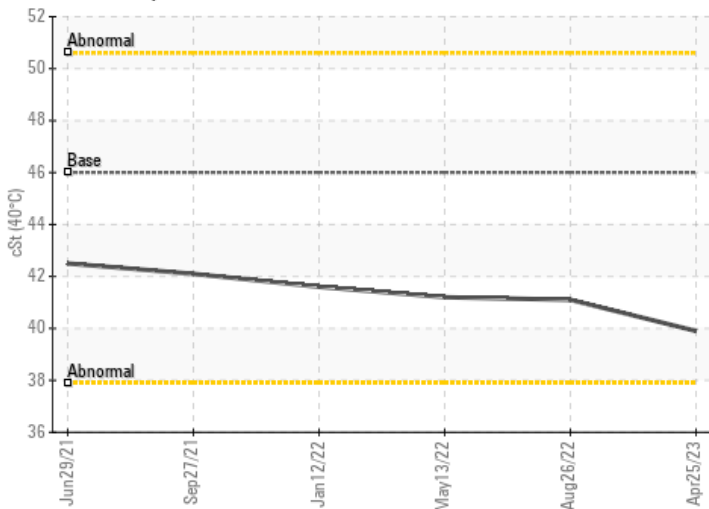
Ferrous Alloys



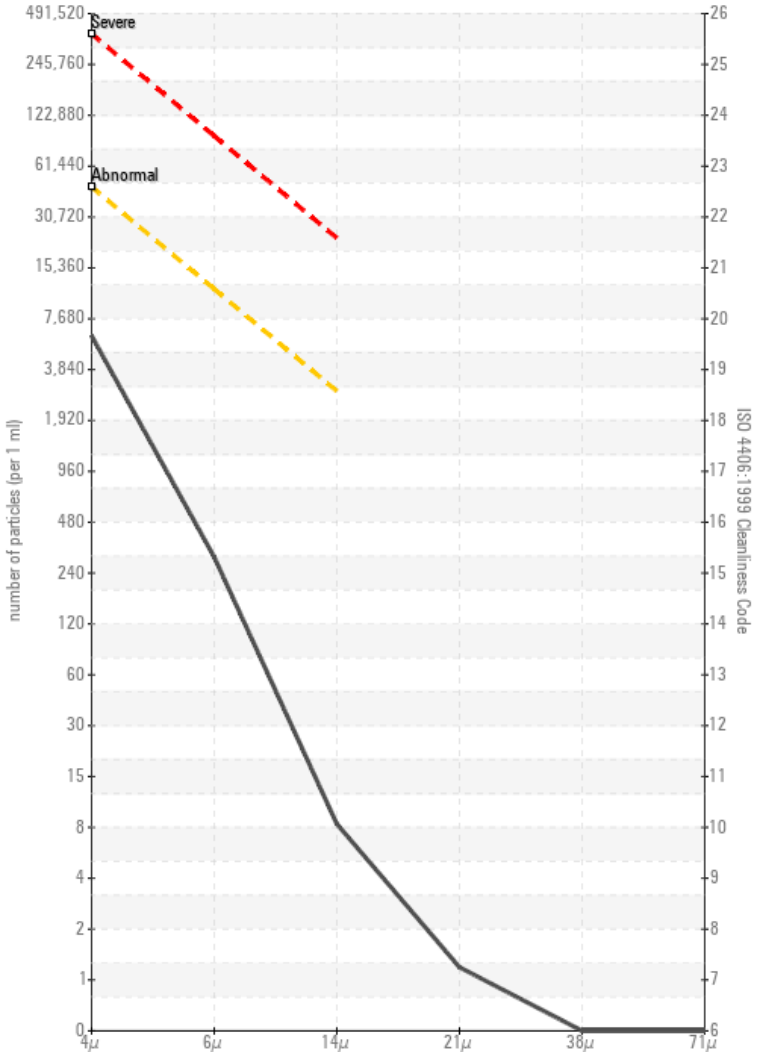
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

