



CONSTRUCTION EQUIPMENT

SWA307696-10 VOLVO A40G 342584 - HYDRAULIC SYSTEM



Sample No: VCP419152
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA307696-10



SAMPLE INFORMATION

Sample Number	VCP419152	VCP315936	VCP328200	VCP319282
Sample Date	19 Aug 2023	17 Mar 2022	17 Dec 2021	03 Sep 2021
Machine Hours	8359	5285	4805	4228
Oil Hours	0	1000	500	4000
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

THALLE INDUSTRIES

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OIL CONDITION

Visc @ 40°C	cSt	40.8	41.2	41.8	41.1
Acid Number (AN)	mg KOH/g	0.35	0.37	0.31	0.370



CONTAMINATION

Particles >4µm		862	3523	3440	185
Particles >6µm		250	918	951	34
Particles >14µm		36	55	61	5
ISO 4406:1999 (c)		17/15/12	19/17/13	19/17/13	15/12/10
Silicon	ppm	14	8	8	10
Sodium	ppm	2	2	2	0
Potassium	ppm	<1	<1	0	<1



WEAR METALS

Iron	ppm	14	8	7	8
Copper	ppm	4	3	3	4
Lead	ppm	2	2	2	3
Tin	ppm	0	<1	0	<1
Aluminum	ppm	5	3	2	7
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	82	69	74	64
Magnesium	ppm	5	2	3	3
Zinc	ppm	424	452	417	463
Phosphorus	ppm	334	376	356	340
Barium	ppm	0	0	0	0
Boron	ppm	0	2	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.

Depot: THAFIS
Unique No: 10617368
Signed: Wes Davis
Report Date: 24 Aug 2023

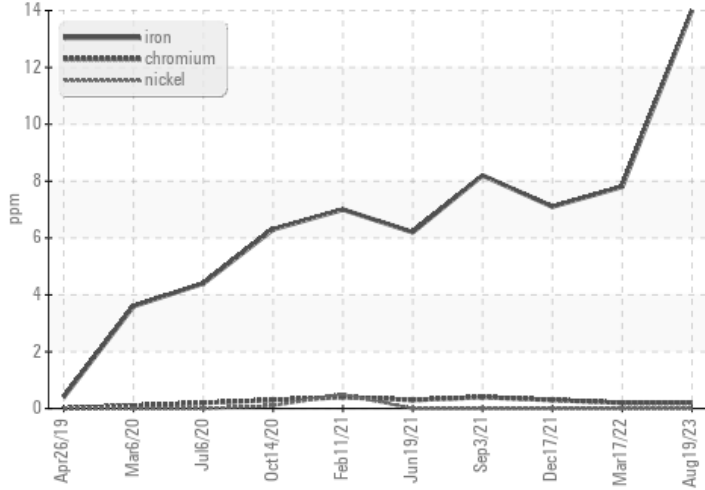


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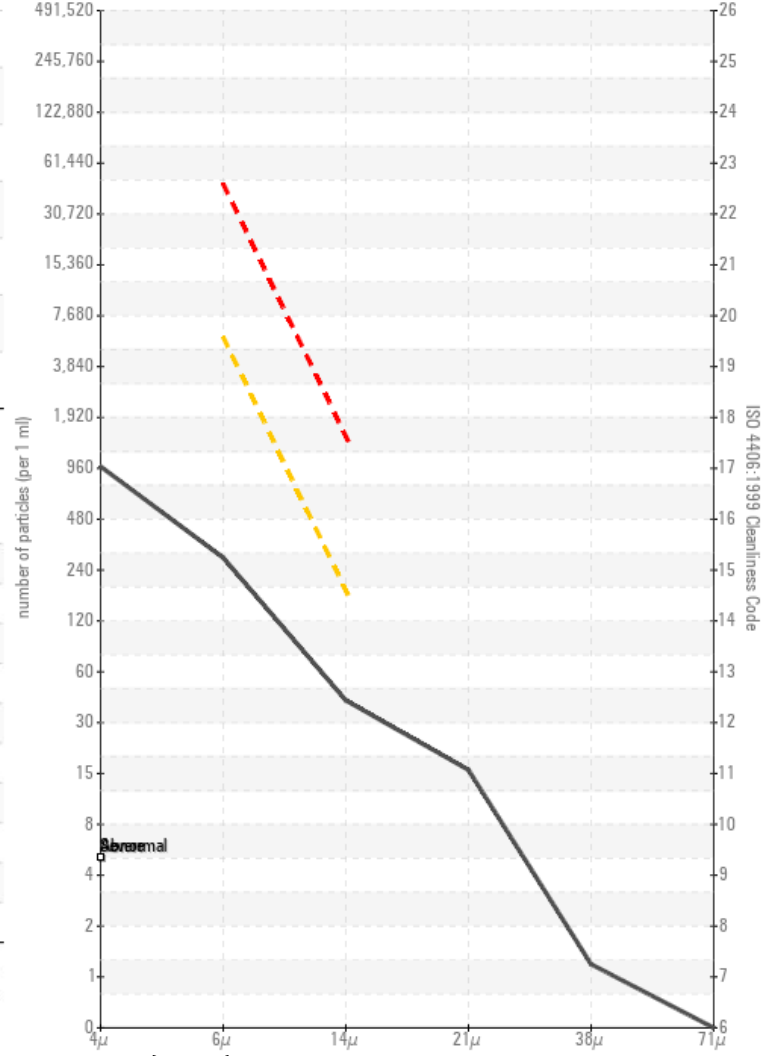


VOLVO GRAPHS

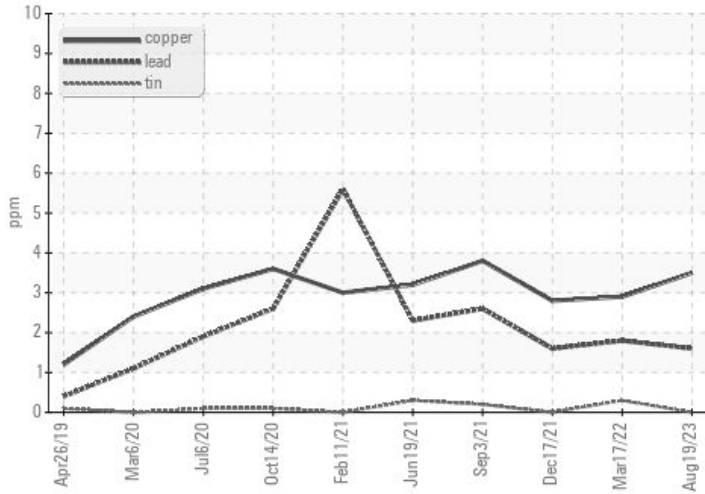
Ferrous Alloys



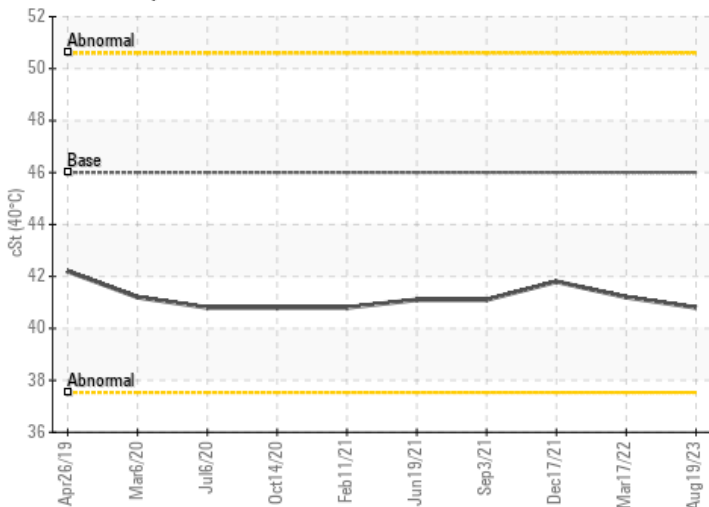
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

