



CONSTRUCTION EQUIPMENT

SWO-065605 VOLVO A30F 82223 - HYDRAULIC SYSTEM



Sample No: VCP431124
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-065605



SAMPLE INFORMATION

Sample Number	VCP431124	VCP424701	VCP366672	VCP354274
Sample Date	07 Sep 2023	03 May 2023	16 Aug 2022	10 May 2022
Machine Hours	3759	3243	2751	2263
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	44.6	45.0	45.3	45.1
Acid Number (AN)	mg KOH/g	0.42	0.44	0.44	0.49



CONTAMINATION

Particles >4µm		16864	25252	6298	19622
Particles >6µm		1554	1415	369	3130
Particles >14µm		23	70	22	156
ISO 4406:1999 (c)		21/18/12	22/18/13	20/16/12	21/19/14
Silicon	ppm	7	6	7	6
Sodium	ppm	7	6	4	4
Potassium	ppm	2	1	2	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	21	17	15	13
Copper	ppm	84	71	64	48
Lead	ppm	19	17	19	17
Tin	ppm	4	3	4	2
Aluminum	ppm	0	0	1	<1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	1	1	1	1
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	159	151	157	162
Magnesium	ppm	5	5	3	2
Zinc	ppm	501	494	526	486
Phosphorus	ppm	410	393	403	430
Barium	ppm	0	0	0	0
Boron	ppm	7	7	8	10

Depot: SAIBIR
Unique No: 10646028
Signed: Don Baldrige
Report Date: 18 Sep 2023

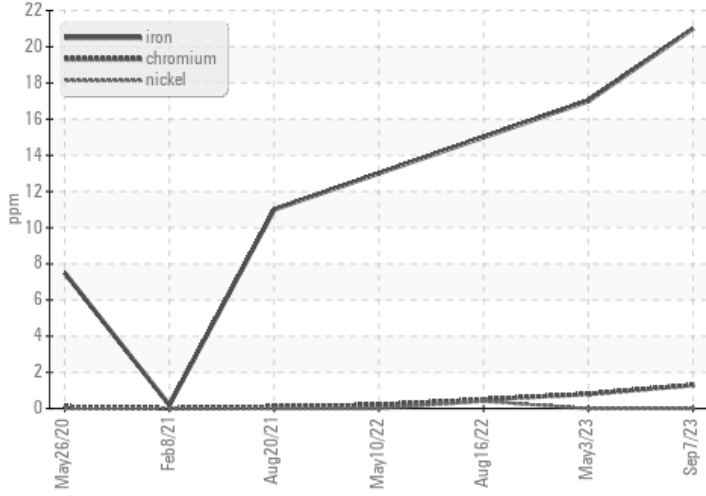


CONSTRUCTION EQUIPMENT

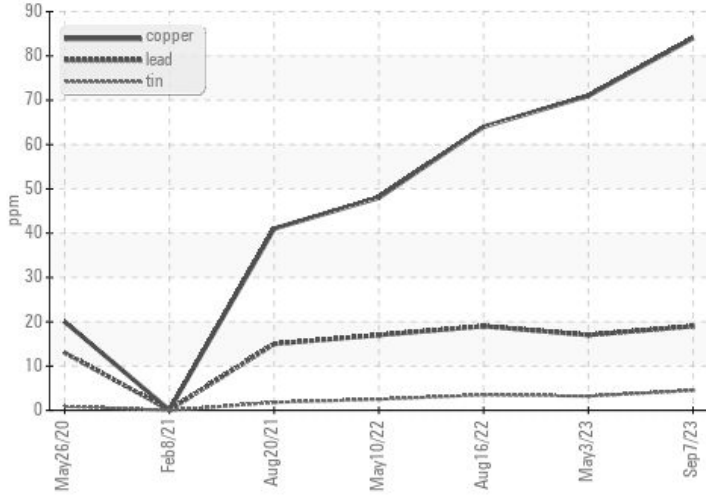


GRAPHS

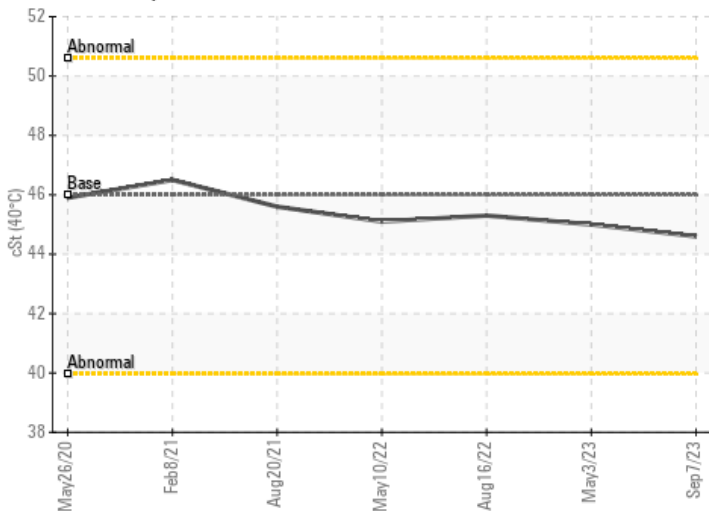
Ferrous Alloys



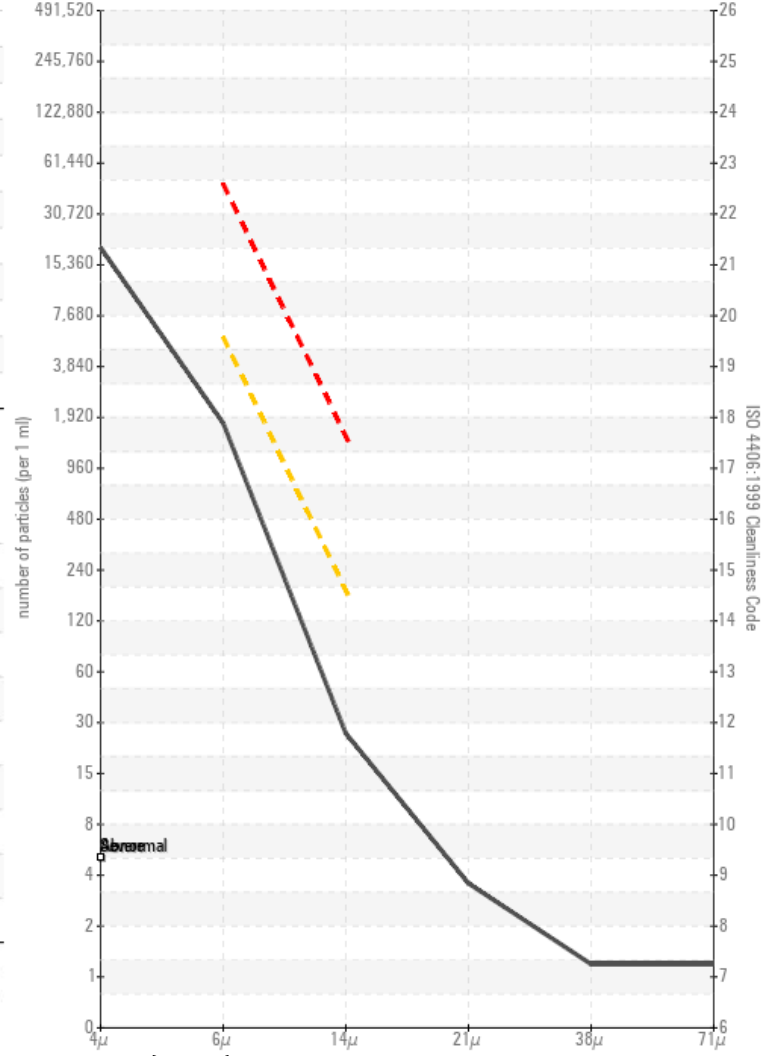
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

