



CONSTRUCTION EQUIPMENT

SWO-064669 VOLVO A45G 352698 - HYDRAULIC SYSTEM



Sample No: VCP406867
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-064669



SAMPLE INFORMATION

Sample Number	VCP406867	VCP410133	VCP367725	VCP388302
Sample Date	07 Aug 2023	16 May 2023	17 Jan 2023	12 Oct 2022
Machine Hours	4553	4038	3513	3026
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	46.3	43.9	43.6	43.7
Acid Number (AN)	mg KOH/g	0.46	0.29	0.36	0.34



CONTAMINATION

Particles >4µm		1661	703	2480	24796
Particles >6µm		401	195	849	616
Particles >14µm		16	15	61	40
ISO 4406:1999 (c)		18/16/11	17/15/11	18/17/13	22/16/12
Silicon	ppm	5	6	6	8
Sodium	ppm	2	2	0	2
Potassium	ppm	<1	<1	2	0

Diagnosis

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



WEAR METALS

Iron	ppm	2	8	3	2
Copper	ppm	5	2	12	8
Lead	ppm	2	2	2	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	<1	2	0	0
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	58	72	60	35
Magnesium	ppm	9	4	5	9
Zinc	ppm	385	464	425	421
Phosphorus	ppm	306	352	318	318
Barium	ppm	<1	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10603281
Signed: Don Baldrige
Report Date: 15 Aug 2023

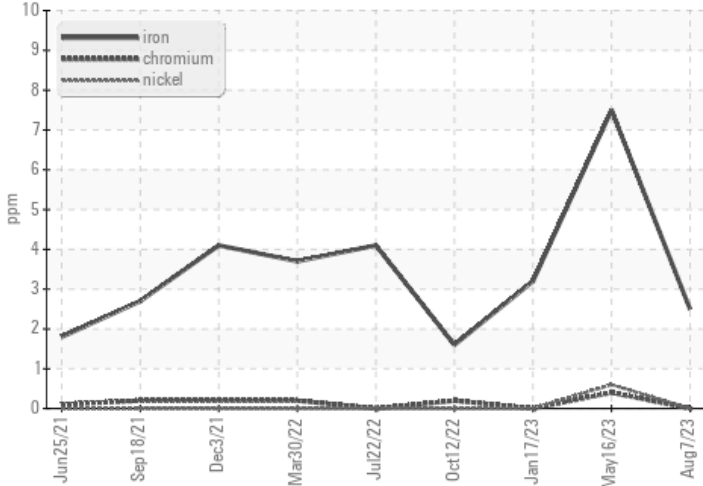


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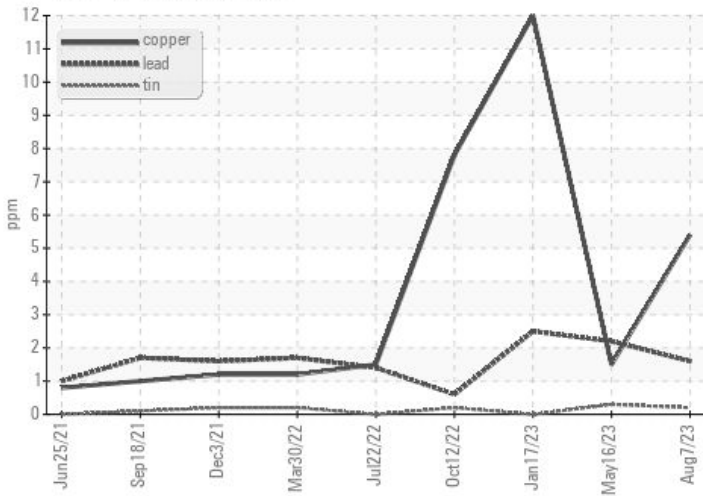


GRAPHS

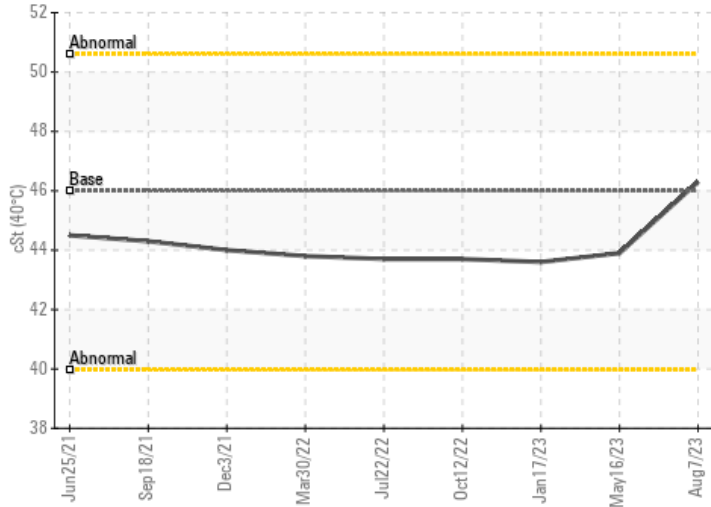
Ferrous Alloys



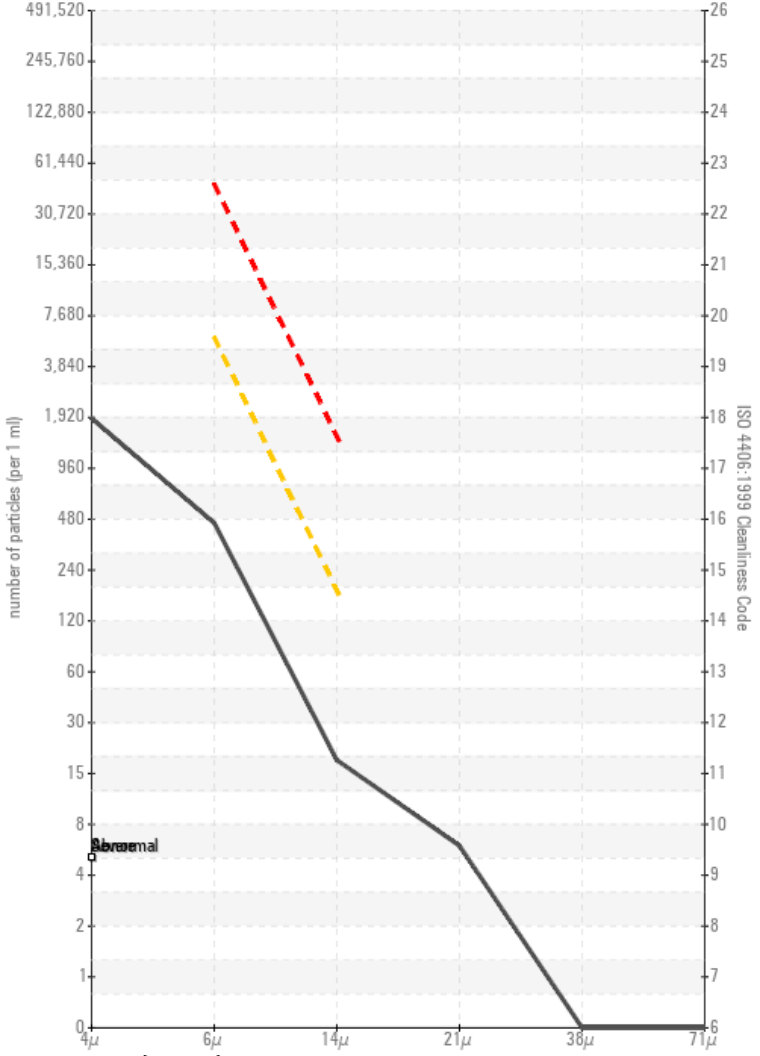
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

