



CONSTRUCTION EQUIPMENT

SWO-066002 VOLVO A45G 352134 - HYDRAULIC SYSTEM



Sample No: VCP431902
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-066002



SAMPLE INFORMATION

Sample Number	VCP431902	VCP416411	VCP414242	VCP401936
Sample Date	26 Sep 2023	31 Jul 2023	31 May 2023	04 Apr 2023
Machine Hours	8228	7719	7234	6763
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	45.8	46.0	45.1	44.2
Acid Number (AN)	mg KOH/g	0.38	0.40	0.32	0.40



CONTAMINATION

Particles >4µm		1231	3874	3860	2015
Particles >6µm		197	908	1084	390
Particles >14µm		19	27	21	12
ISO 4406:1999 (c)		17/15/11	19/17/12	19/17/12	18/16/11
Silicon	ppm	4	4	4	5
Sodium	ppm	<1	2	<1	0
Potassium	ppm	0	<1	<1	1

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	7	7	7	6
Copper	ppm	2	4	3	4
Lead	ppm	0	0	0	1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	1	2	0
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	0	<1	1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	132	121	129	123
Magnesium	ppm	16	13	15	11
Zinc	ppm	471	451	481	455
Phosphorus	ppm	349	328	357	333
Barium	ppm	<1	0	2	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10671102
Signed: Don Baldrige
Report Date: 02 Oct 2023

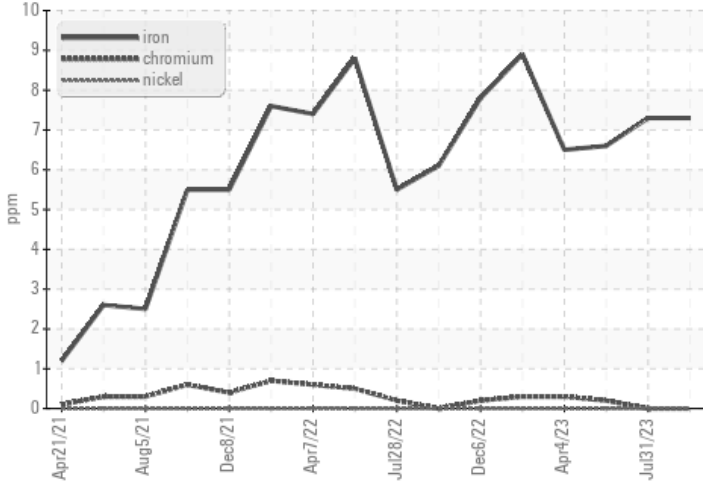


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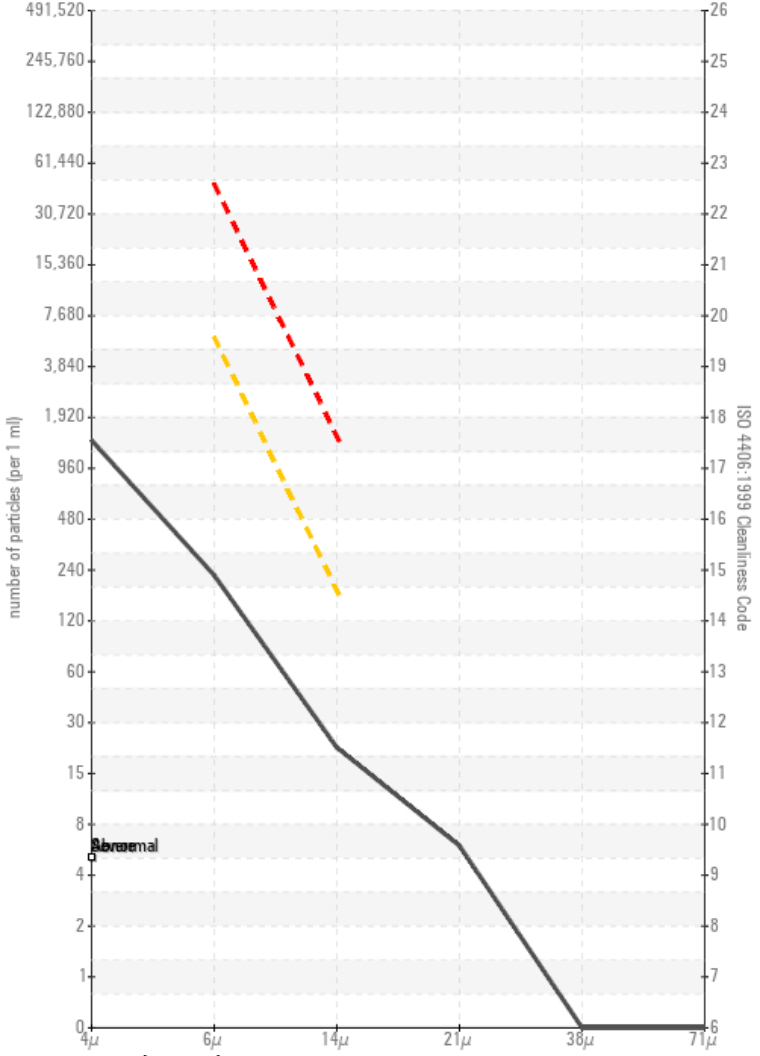


GRAPHS

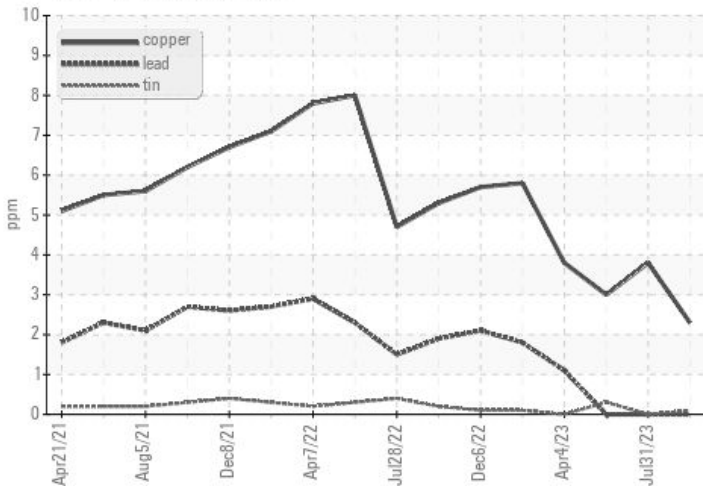
Ferrous Alloys



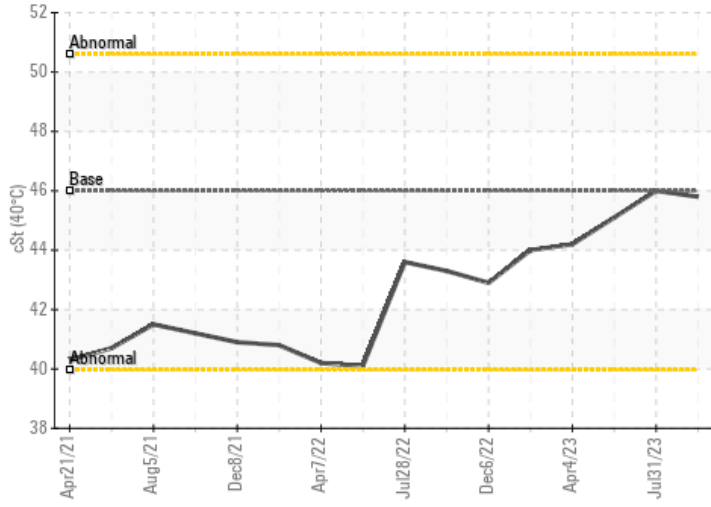
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

