



CONSTRUCTION EQUIPMENT

SWO-068391 VOLVO A45G 352969 - HYDRAULIC SYSTEM



Sample No: VCP414707
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-068391



SAMPLE INFORMATION

Sample Number	VCP414707	VCP433935	VCP419150	VCP397718
Sample Date	20 Dec 2023	19 Sep 2023	21 Jun 2023	24 Jan 2023
Machine Hours	2980	2491	2003	1469
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	43.4	43.0	43.6	43.4
Acid Number (AN)	mg KOH/g	0.40	0.44	0.41	0.40



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2152	1525	6023	3096
Particles >6µm		387	327	1549	906
Particles >14µm		19	19	54	66
ISO 4406:1999 (c)		18/16/11	18/16/11	20/18/13	19/17/13
Silicon	ppm	5	5	4	5
Sodium	ppm	<1	<1	1	0
Potassium	ppm	0	0	0	<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	5	5	4	3
Copper	ppm	2	2	1	1
Lead	ppm	2	2	<1	2
Tin	ppm	0	<1	0	0
Aluminum	ppm	0	0	<1	0
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	0	0	<1	0
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	<1	0	0



ADDITIVES

Calcium	ppm	83	79	70	72
Magnesium	ppm	17	16	0	<1
Zinc	ppm	471	443	471	443
Phosphorus	ppm	369	357	354	326
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10809374
Signed: Don Baldrige
Report Date: 03 Jan 2024

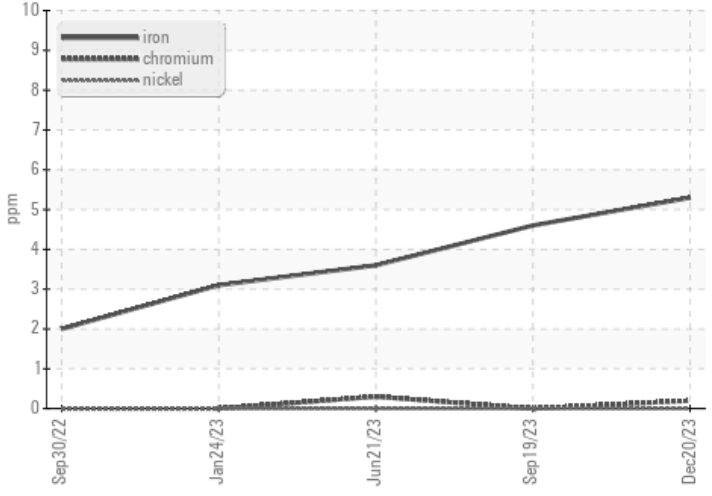


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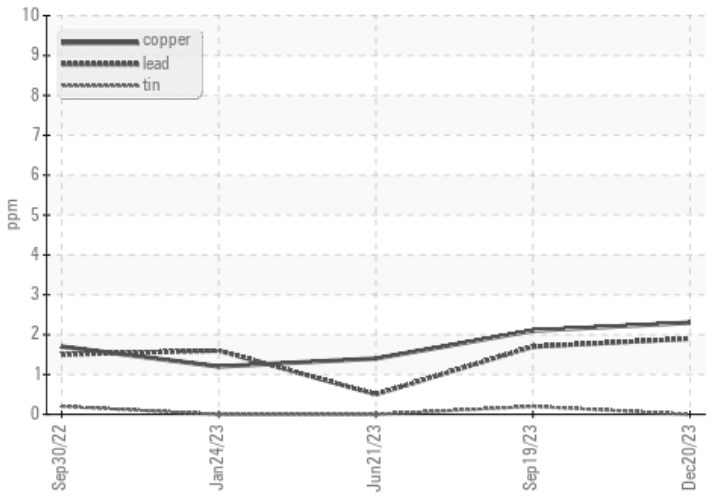


GRAPHS

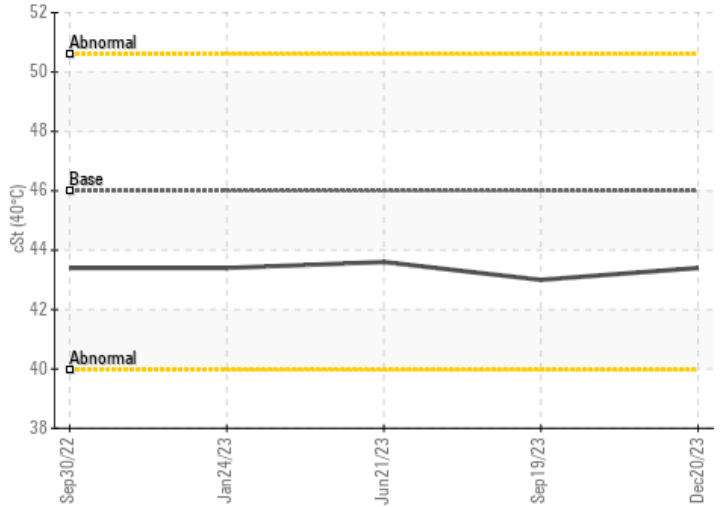
Ferrous Alloys



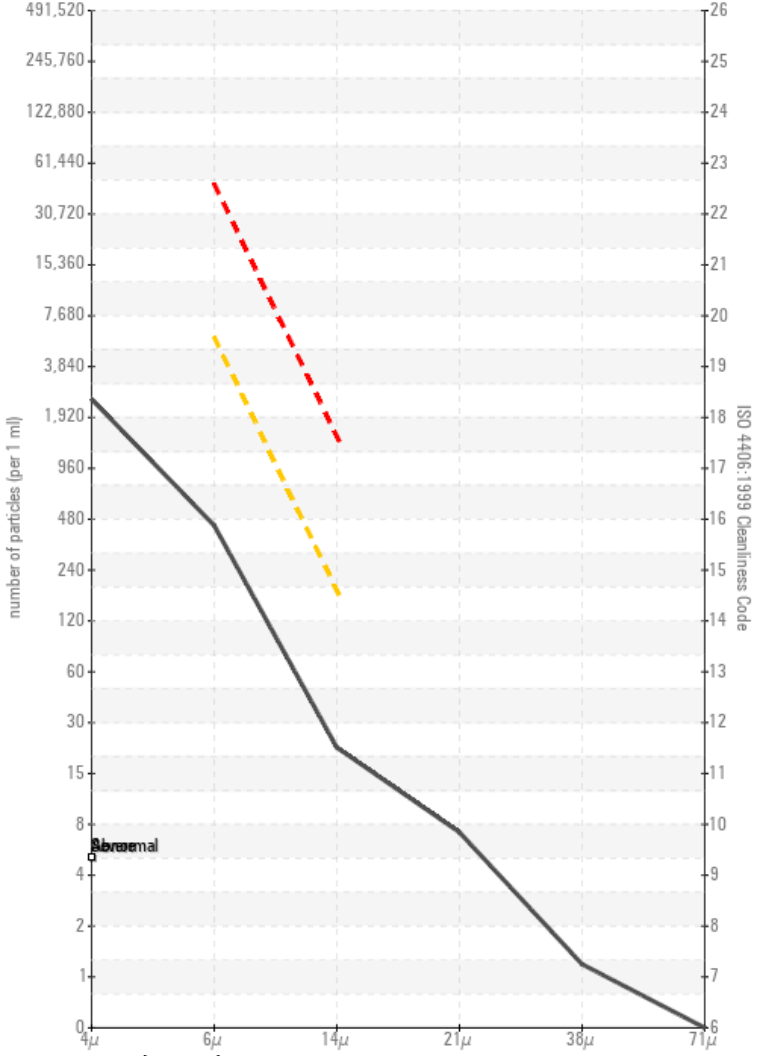
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

