



CONSTRUCTION EQUIPMENT

SWO-068559 VOLVO A40G 341023 - HYDRAULIC SYSTEM



Sample No: VCP447547
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-068559



SAMPLE INFORMATION

Sample Number	VCP447547	VCP428970	VCP408959	VCP396170
Sample Date	27 Dec 2023	20 Sep 2023	13 Jun 2023	07 Mar 2023
Machine Hours	8960	8472	7952	7404
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	44.0	44.7	44.5	44.0
Acid Number (AN)	mg KOH/g	0.52	0.53	0.35	0.33



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1432	3936	1366	1480
Particles >6µm		283	1260	303	328
Particles >14µm		22	116	38	24
ISO 4406:1999 (c)		18/15/12	19/17/14	18/15/12	18/16/12
Silicon	ppm	2	2	3	3
Sodium	ppm	1	0	3	0
Potassium	ppm	0	2	<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	5	5	8	7
Copper	ppm	9	8	14	12
Lead	ppm	<1	1	3	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	0	0	1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	<1	1	1	2
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	186	155	109	103
Magnesium	ppm	40	40	9	10
Zinc	ppm	635	663	461	437
Phosphorus	ppm	495	490	360	324
Barium	ppm	0	0	0	2
Boron	ppm	1	0	0	2

Depot: SAIBIR
Unique No: 10809370
Signed: Don Baldrige
Report Date: 03 Jan 2024

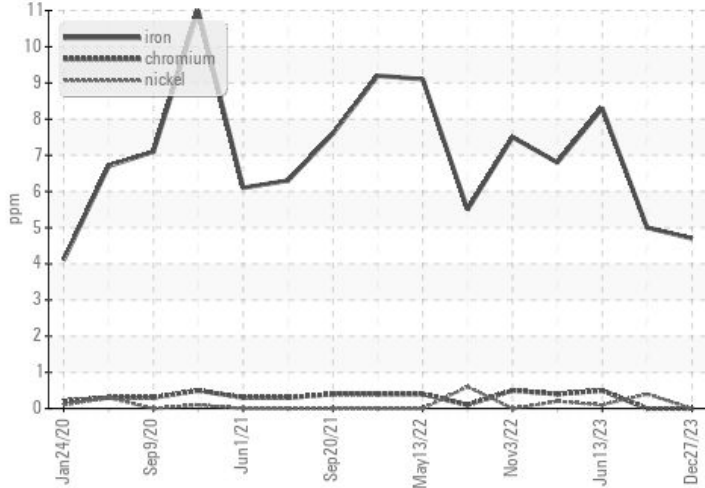


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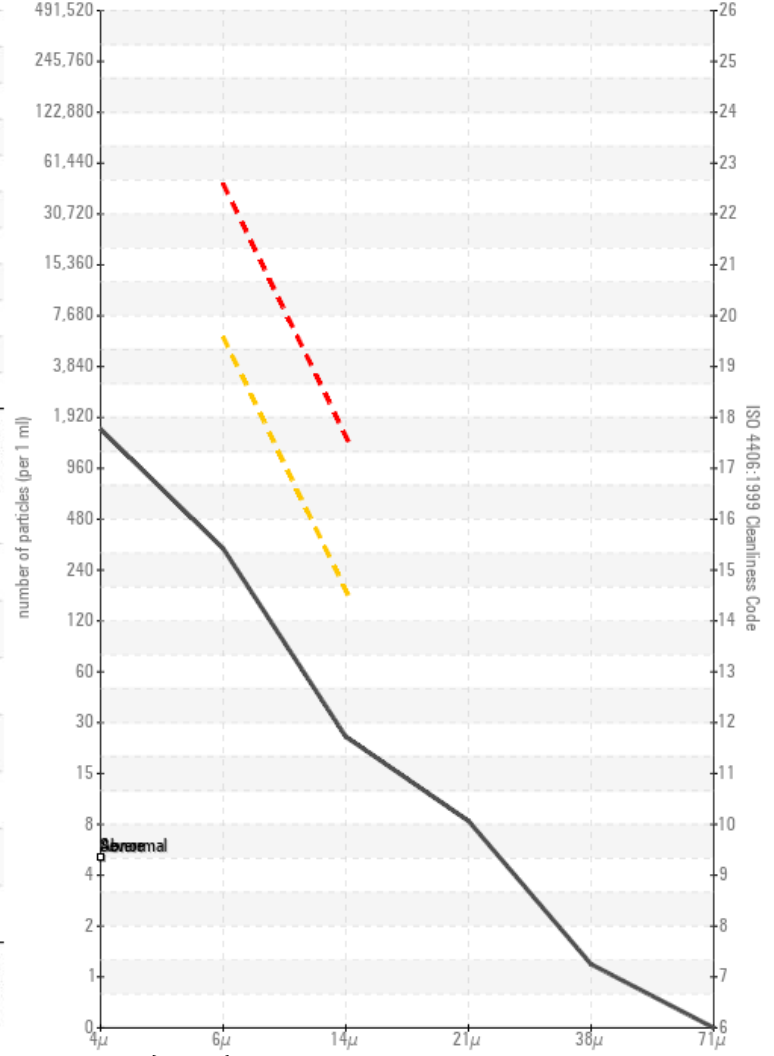


GRAPHS

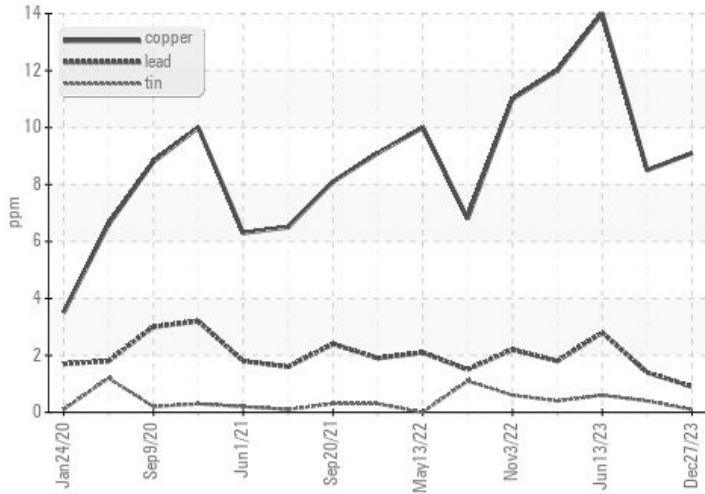
Ferrous Alloys



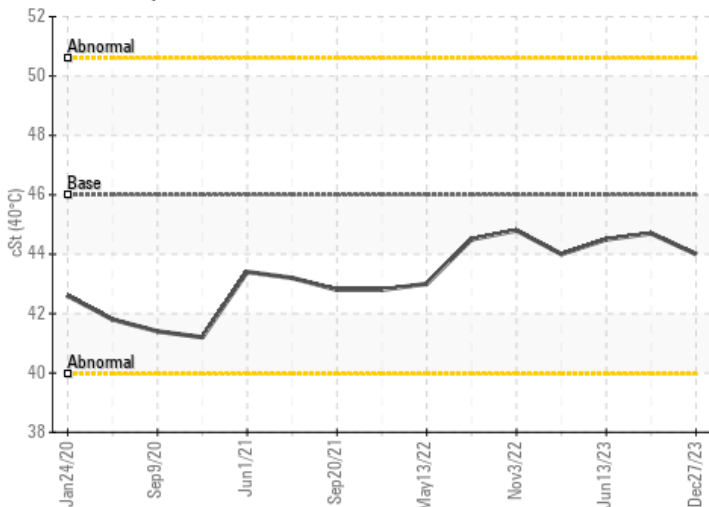
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

