



CONSTRUCTION EQUIPMENT

SWO-069775 VOLVO A60H 350021 - HYDRAULIC SYSTEM



Sample No: VCP444475
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-069775



SAMPLE INFORMATION

Sample Number	VCP444475	VCP427450	VCP424677	VCP402451
Sample Date	15 Feb 2024	25 Sep 2023	12 Jun 2023	03 Mar 2023
Machine Hours	7887	7398	6877	6375
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	43.7	43.5	44.5	44.7
Acid Number (AN)	mg KOH/g	0.40	0.35	0.40	0.40



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2342	1502	1755	6492
Particles >6µm		285	520	512	1548
Particles >14µm		14	70	37	77
ISO 4406:1999 (c)		18/15/11	18/16/13	18/16/12	20/18/13
Silicon	ppm	2	3	3	2
Sodium	ppm	0	1	1	<1
Potassium	ppm	0	<1	<1	<1

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	6	9	5	3
Copper	ppm	1	2	2	1
Lead	ppm	<1	1	1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	2	<1	<1
Chromium	ppm	1	1	<1	<1
Molybdenum	ppm	2	4	4	3
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	0
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	110	116	116	105
Magnesium	ppm	17	16	15	15
Zinc	ppm	445	472	462	424
Phosphorus	ppm	317	344	366	328
Barium	ppm	0	0	0	0
Boron	ppm	0	1	1	2

Depot: SAIBIR
Unique No: 10899783
Signed: Jonathan Hester
Report Date: 29 Feb 2024

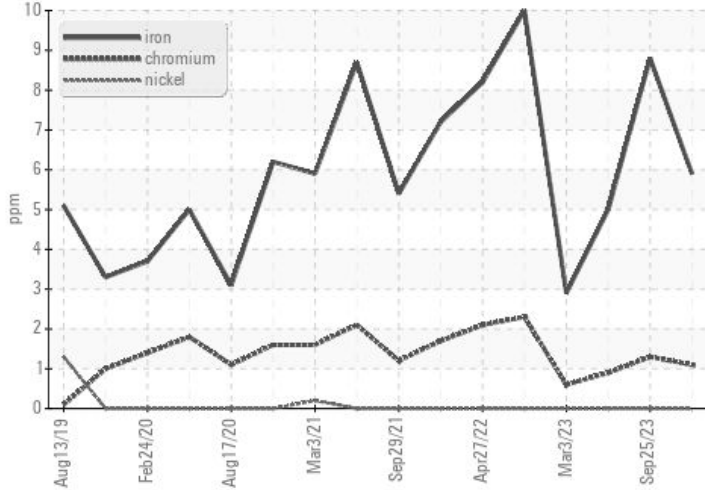


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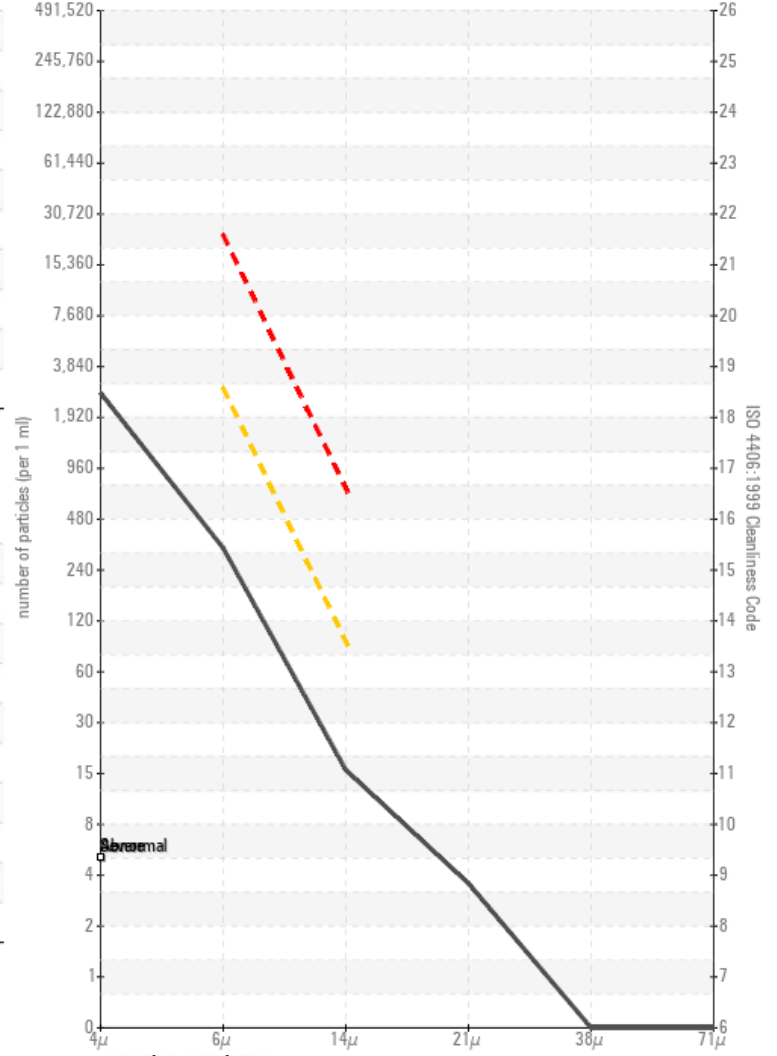


GRAPHS

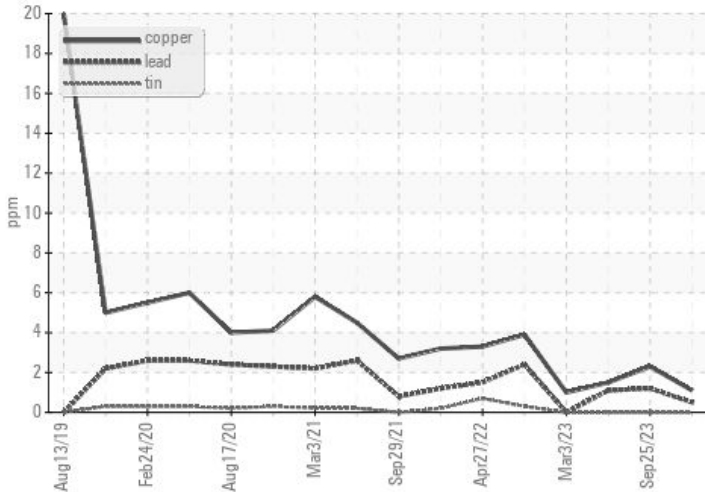
Ferrous Alloys



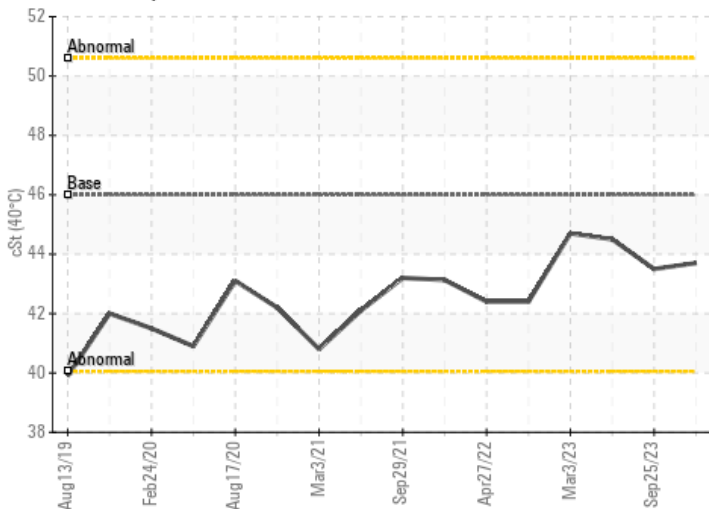
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

