



CONSTRUCTION EQUIPMENT

SWO-066005 VOLVO A40G 341023 - HYDRAULIC SYSTEM



Sample No: VCP428970
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-066005



SAMPLE INFORMATION

Sample Number	VCP428970	VCP408959	VCP396170	VCP369335
Sample Date	20 Sep 2023	13 Jun 2023	07 Mar 2023	03 Nov 2022
Machine Hours	8472	7952	7404	6919
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

SAIIA CONSTRUCTION LLC

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 BIRMINGHAM, AL
 US 35207

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OIL CONDITION

Visc @ 40°C	cSt	44.7	44.5	44.0	44.8
Acid Number (AN)	mg KOH/g	0.53	0.35	0.33	0.31



CONTAMINATION

Particles >4µm		3936	1366	1480	8829
Particles >6µm		1260	303	328	2595
Particles >14µm		116	38	24	267
ISO 4406:1999 (c)		19/17/14	18/15/12	18/16/12	20/19/15
Silicon	ppm	2	3	3	4
Sodium	ppm	0	3	0	0
Potassium	ppm	2	<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	5	8	7	8
Copper	ppm	8	14	12	11
Lead	ppm	1	3	2	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	0	1	<1	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	1	1	2	1
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	155	109	103	100
Magnesium	ppm	40	9	10	9
Zinc	ppm	663	461	437	455
Phosphorus	ppm	490	360	324	334
Barium	ppm	0	0	2	2
Boron	ppm	0	0	2	2

Depot: SAIBIR
Unique No: 10660966
Signed: Don Baldrige
Report Date: 26 Sep 2023

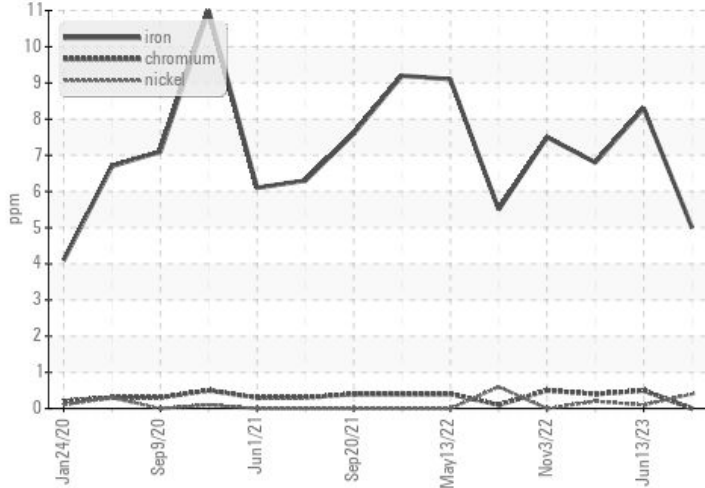


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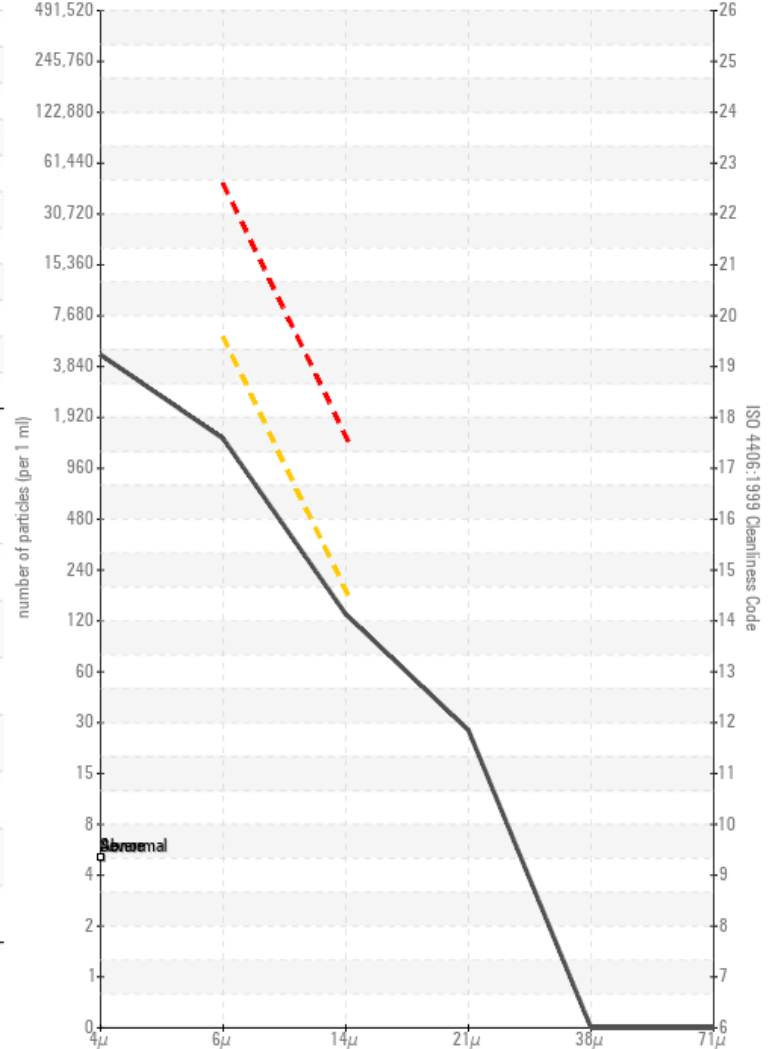


VOLVO GRAPHS

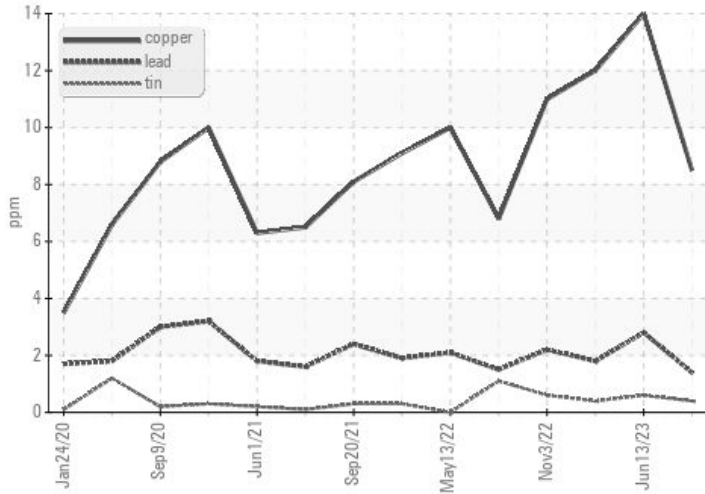
Ferrous Alloys



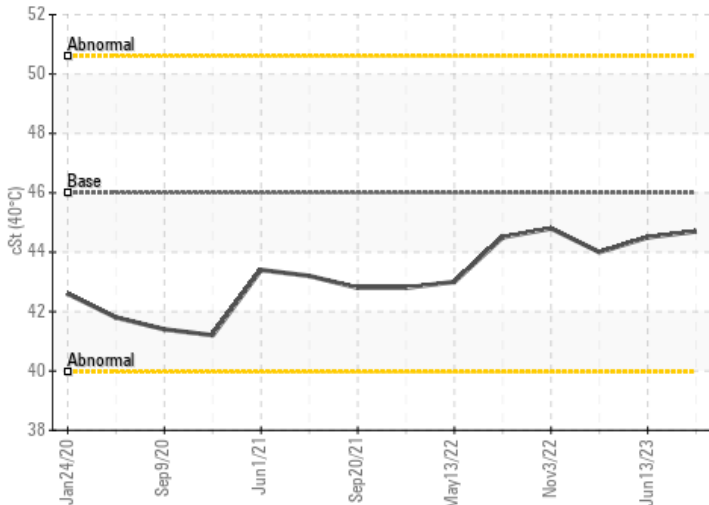
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

