



CONSTRUCTION EQUIPMENT

SWO-068207 VOLVO A60H 350190 - HYDRAULIC SYSTEM



Sample No: VCP428534
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-068207



SAMPLE INFORMATION

Sample Number	VCP428534	VCP434746	VCP395208	VCP388386
Sample Date	12 Dec 2023	05 Sep 2023	05 May 2023	19 Jan 2023
Machine Hours	3131	2618	2128	1651
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ATTENTION	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.2	43.6	44.2	36.54
Acid Number (AN)	mg KOH/g	0.58	0.40	0.35	0.33



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		6795	642	739	14212
Particles >6µm		2010	69	105	1750
Particles >14µm		119	7	9	92
ISO 4406:1999 (c)		20/18/14	17/13/10	17/14/10	21/18/14
Silicon	ppm	4	4	4	6
Sodium	ppm	1	1	0	0
Potassium	ppm	0	<1	<1	<1

Diagnosis
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present 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	8	6	8
Copper	ppm	2	2	2	11
Lead	ppm	<1	<1	1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	0	<1	0	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	55	52	61	185
Magnesium	ppm	115	64	2	2
Zinc	ppm	585	522	455	471
Phosphorus	ppm	468	423	316	348
Barium	ppm	0	0	2	0
Boron	ppm	0	0	0	2

Depot: SAIBIR
Unique No: 10792956
Signed: Jonathan Hester
Report Date: 20 Dec 2023

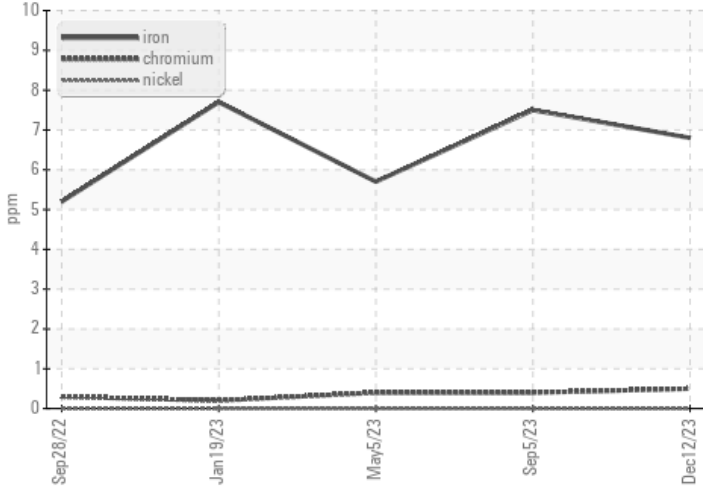


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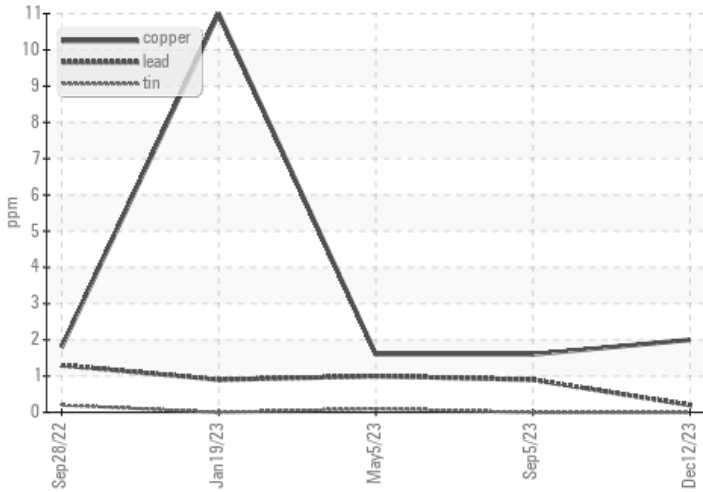


GRAPHS

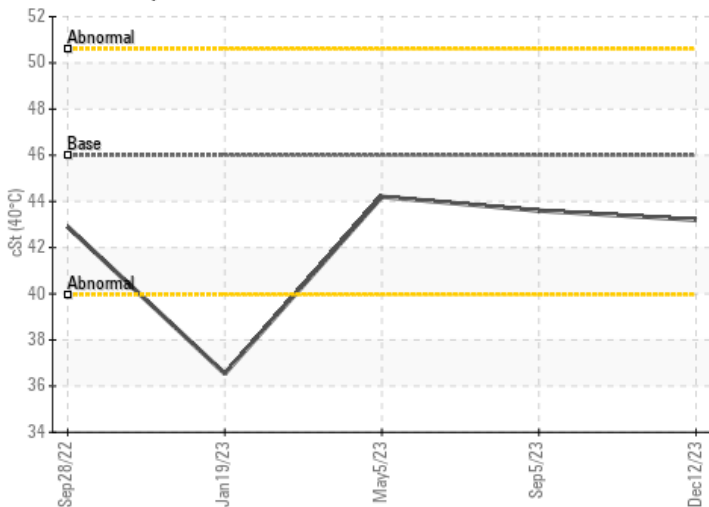
Ferrous Alloys



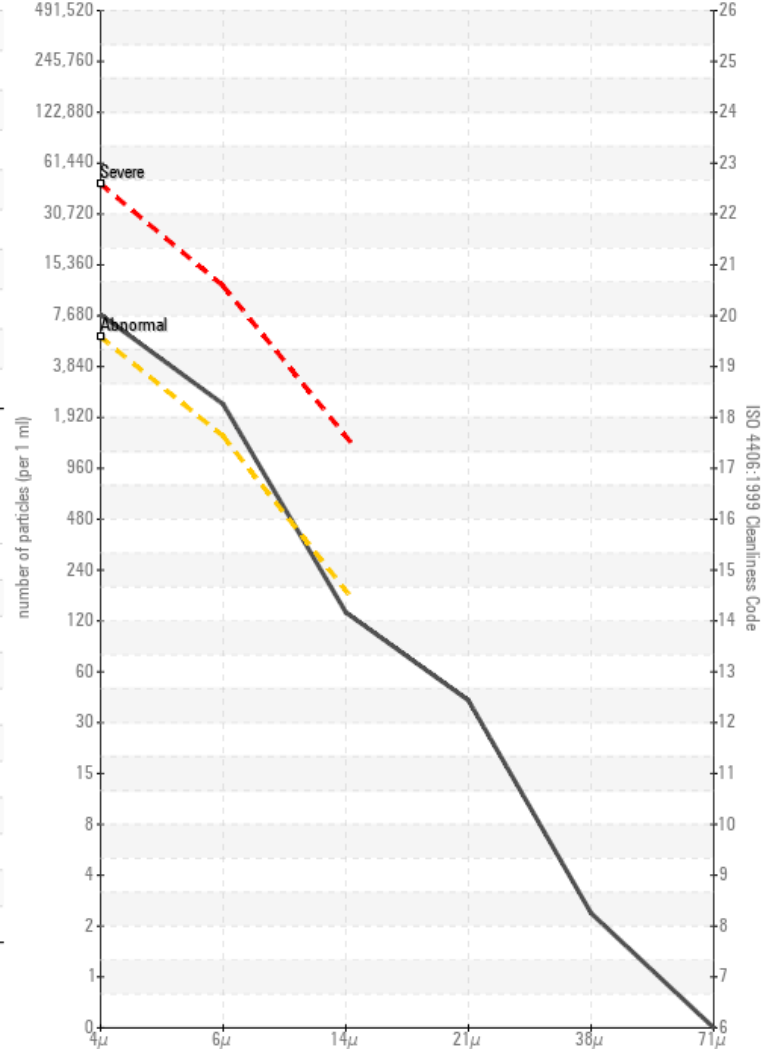
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

