



CONSTRUCTION EQUIPMENT

VOLVO A60H 350190 - HYDRAULIC SYSTEM



Sample No: VCP434746
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP434746	VCP395208	VCP388386	VCP389201
Sample Date	05 Sep 2023	05 May 2023	19 Jan 2023	28 Sep 2022
Machine Hours	2618	2128	1651	1183
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.6	44.2	▲ 36.54	42.9
Acid Number (AN)	mg KOH/g	0.40	0.35	0.33	0.39



CONTAMINATION

Particles >4µm	642	739	▲ 14212	2374	
Particles >6µm	69	105	▲ 1750	393	
Particles >14µm	7	9	92	31	
ISO 4406:1999 (c)	17/13/10	17/14/10	21/18/14	18/16/12	
Silicon	ppm	4	4	6	6
Sodium	ppm	1	0	0	0
Potassium	ppm	<1	<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	8	6	8	5
Copper	ppm	2	2	11	2
Lead	ppm	<1	1	<1	1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	<1	0	0	<1
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	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	52	61	185	58
Magnesium	ppm	64	2	2	2
Zinc	ppm	522	455	471	431
Phosphorus	ppm	423	316	348	328
Barium	ppm	0	2	0	0
Boron	ppm	0	0	2	0

Depot: SAIBIR
Unique No: 10643161
Signed: Don Baldrige
Report Date: 13 Sep 2023

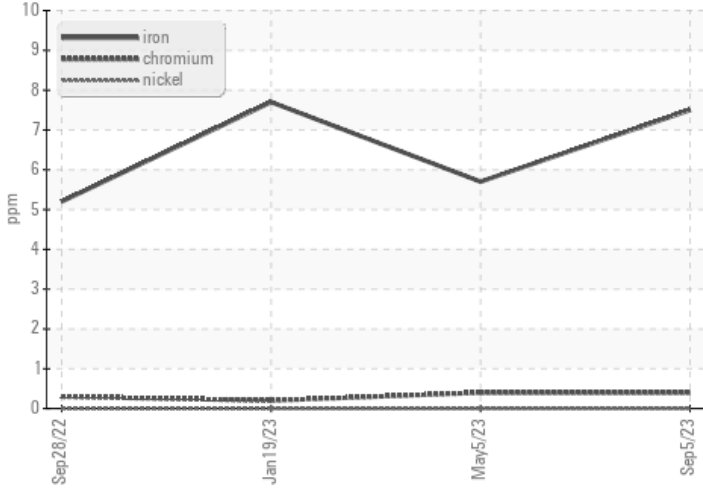


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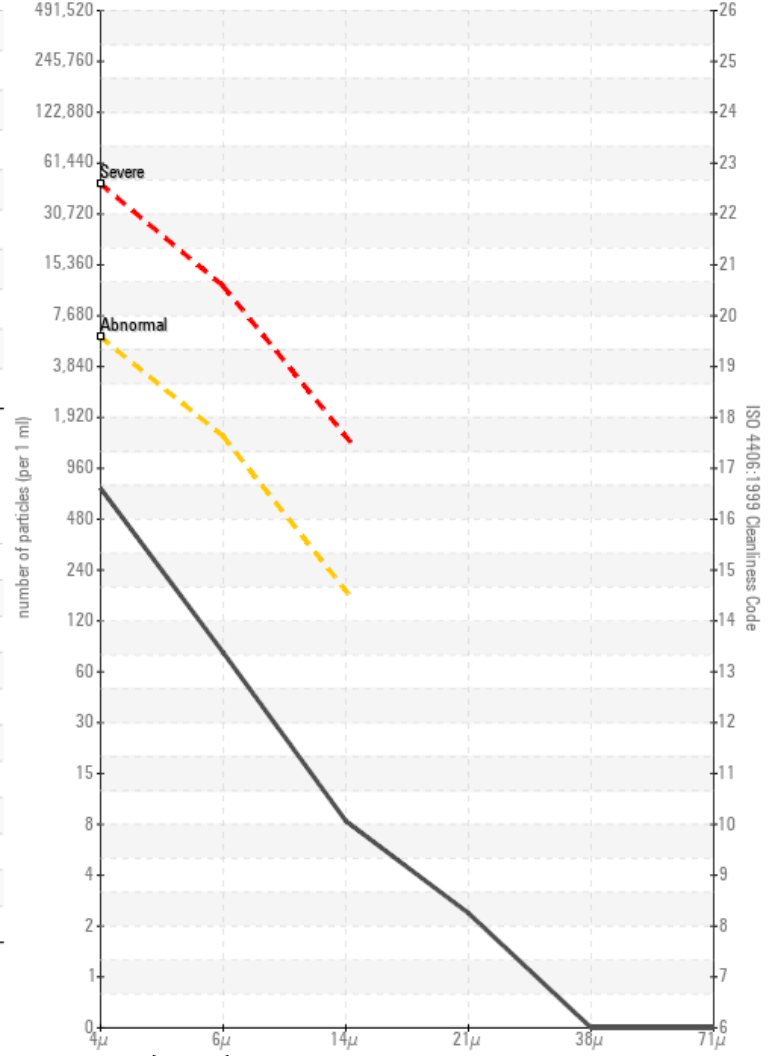


VOLVO GRAPHS

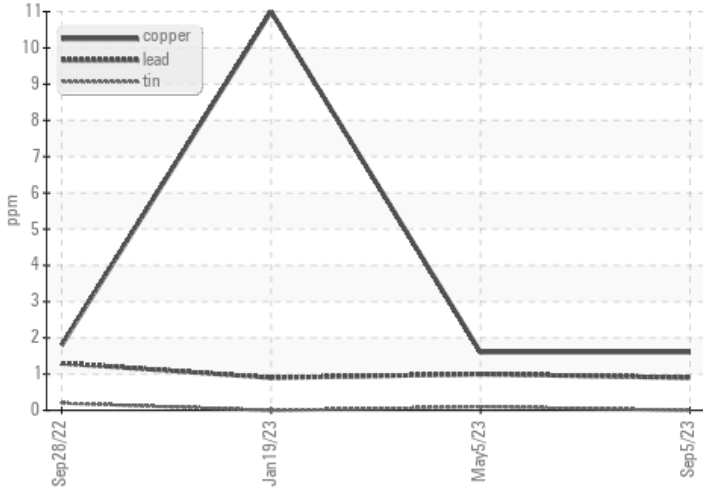
Ferrous Alloys



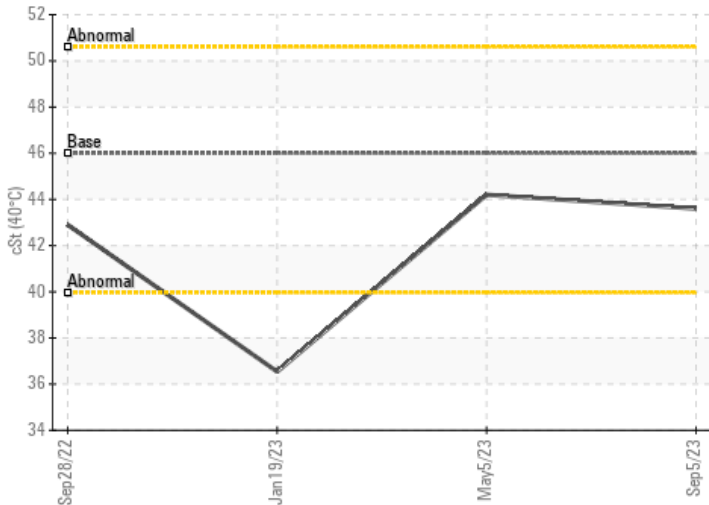
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

