



CONSTRUCTION EQUIPMENT

VOLVO A60H 340039 - HYDRAULIC SYSTEM



Sample No: VCP435399
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP435399	VCP428978	VCP412591	VCP366098
Sample Date	18 Jan 2024	27 Sep 2023	20 Jun 2023	29 Nov 2022
Machine Hours	8521	8052	7542	7061
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC
 4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207
 Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 40°C	cSt	44.8	44.2	44.5	45.1
Acid Number (AN)	mg KOH/g	0.53	0.38	0.36	0.37



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		204	1324	1035	3154
Particles >6µm		42	273	303	915
Particles >14µm		5	30	27	41
ISO 4406:1999 (c)		15/13/10	18/15/12	17/15/12	19/17/13
Silicon	ppm	1	3	2	3
Sodium	ppm	0	<1	1	<1
Potassium	ppm	1	<1	0	0

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	7	12	8	9
Copper	ppm	2	3	2	2
Lead	ppm	<1	2	0	1
Tin	ppm	0	0	0	0
Aluminum	ppm	3	<1	<1	<1
Chromium	ppm	<1	2	1	1
Molybdenum	ppm	1	<1	<1	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	111	75	74	63
Magnesium	ppm	8	5	15	3
Zinc	ppm	452	451	421	357
Phosphorus	ppm	325	323	318	300
Barium	ppm	0	0	14	0
Boron	ppm	0	0	0	<1

Depot: SAIBIR
Unique No: 10848235
Signed: Don Baldrige
Report Date: 30 Jan 2024

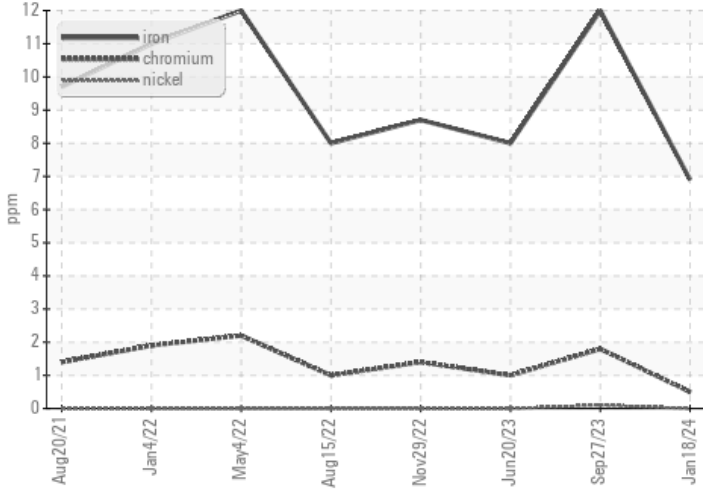


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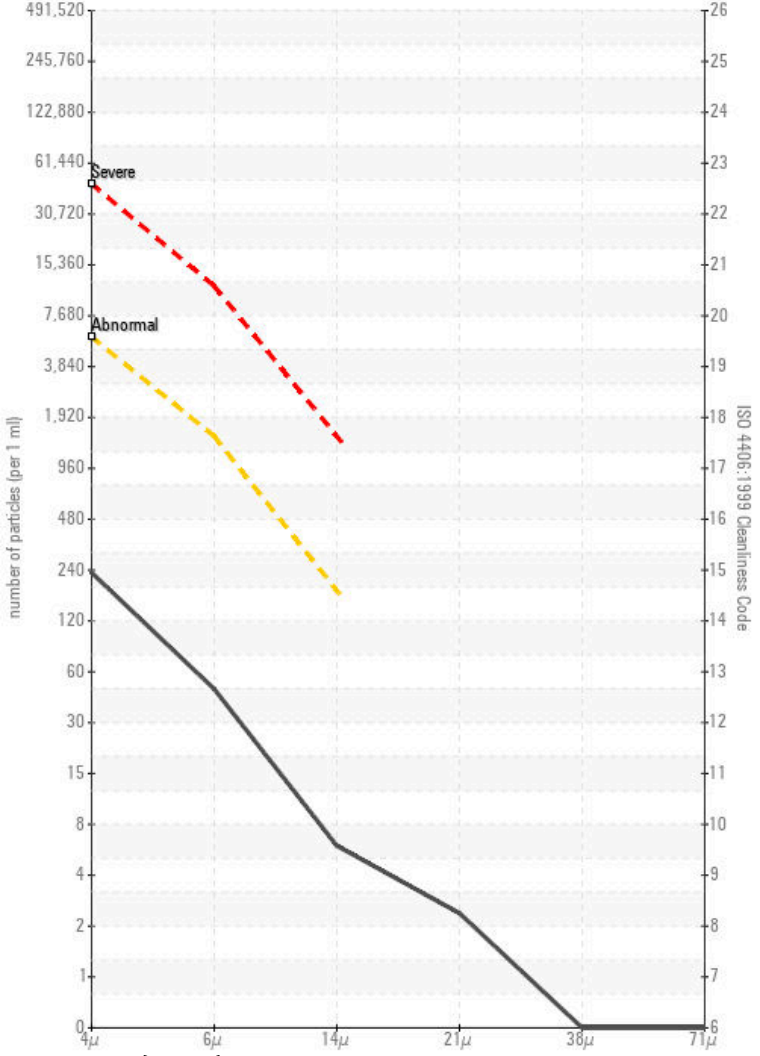


GRAPHS

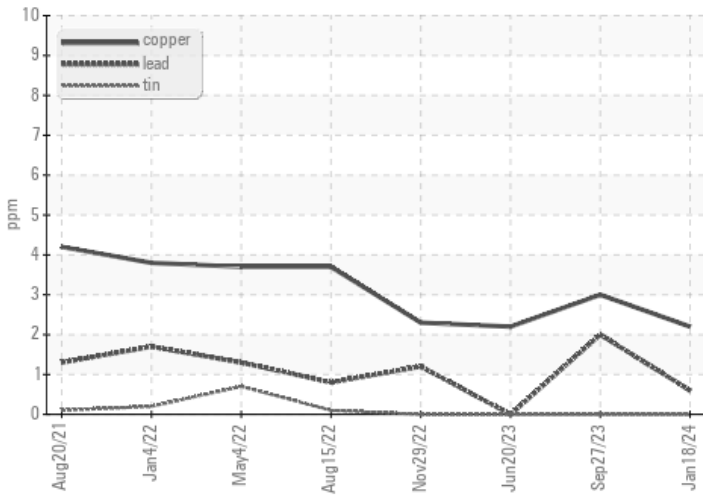
Ferrous Alloys



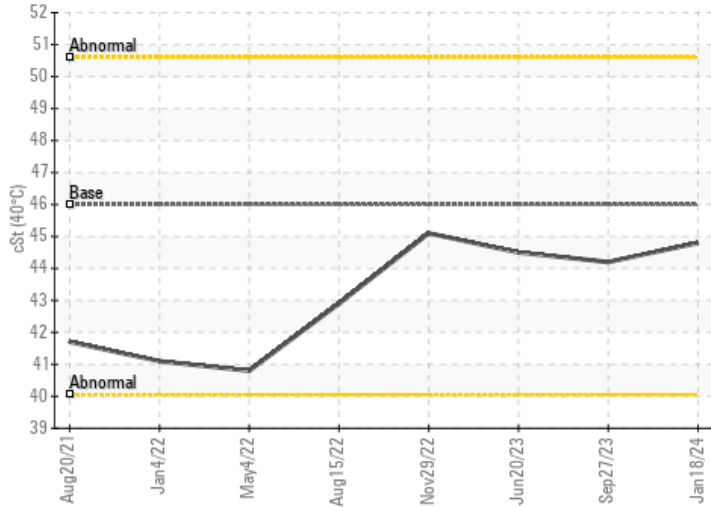
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

