



CONSTRUCTION EQUIPMENT

VOLVO A60H 340099 - HYDRAULIC SYSTEM



Sample No: VCP429283
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP429283	VCP428924	VCP416646	VCP405923
Sample Date	23 Jan 2024	11 Oct 2023	18 Jul 2023	27 Mar 2023
Machine Hours	8489	7982	7491	7019
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	ABNORMAL	ATTENTION	ATTENTION

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	45.0	45.0	42.9	41.7
Acid Number (AN)	mg KOH/g	0.62	0.47	0.38	0.35



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1298	7635	4496	9434
Particles >6µm		220	2596	1539	1208
Particles >14µm		9	169	134	41
ISO 4406:1999 (c)		17/15/10	20/19/15	19/18/14	20/17/13
Silicon	ppm	4	5	5	10
Sodium	ppm	0	2	0	4
Potassium	ppm	2	2	2	<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	11	9	10	20
Copper	ppm	3	3	3	7
Lead	ppm	1	2	1	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	3	1	<1	4
Chromium	ppm	1	2	2	6
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	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	115	105	111	74
Magnesium	ppm	78	78	8	6
Zinc	ppm	547	582	463	444
Phosphorus	ppm	415	433	352	338
Barium	ppm	0	0	1	0
Boron	ppm	0	2	0	0

Depot: SAIBIR
Unique No: 10848236
Signed: Don Baldrige
Report Date: 30 Jan 2024

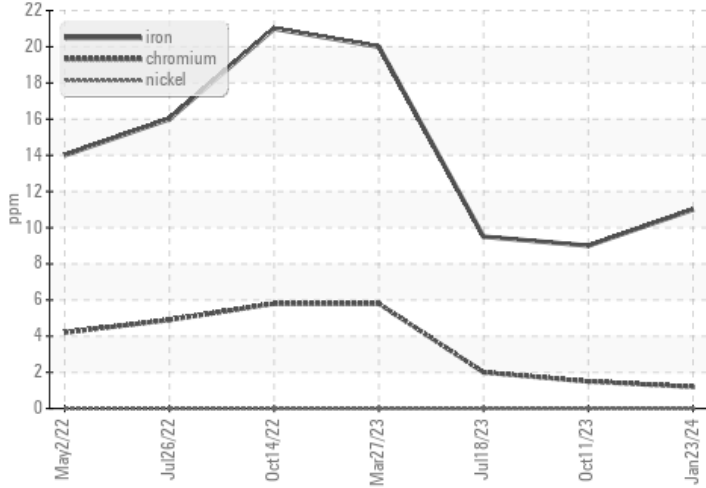


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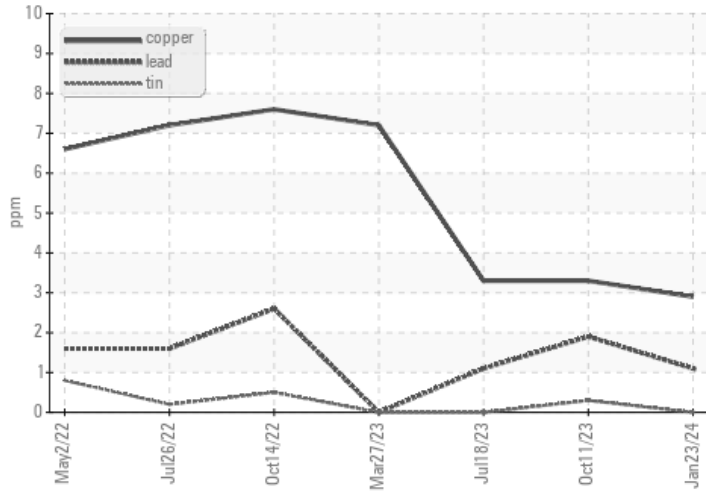


GRAPHS

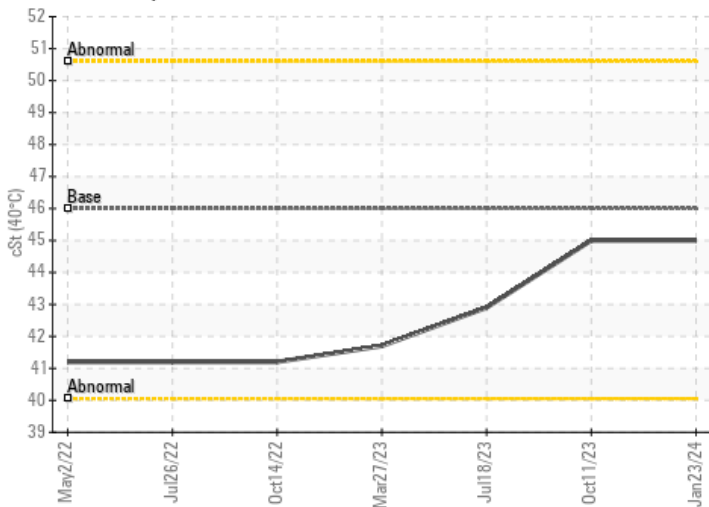
Ferrous Alloys



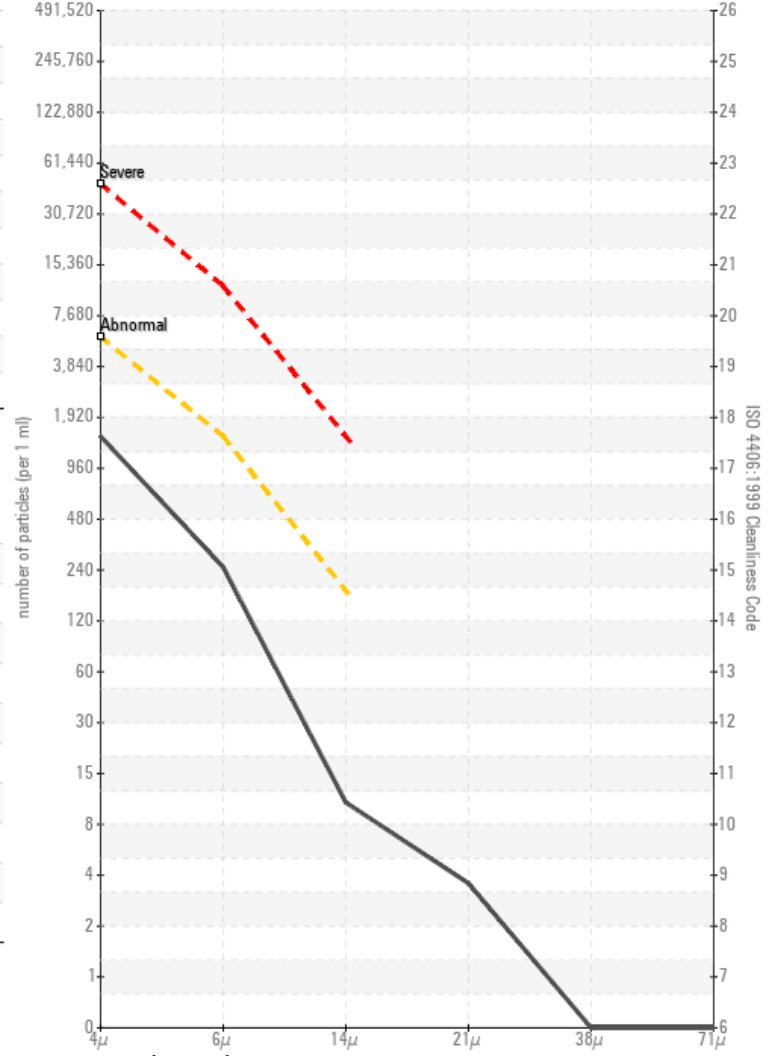
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

