



CONSTRUCTION EQUIPMENT

SWO-071951 VOLVO L70H 624496 - HYDRAULIC SYSTEM



Sample No: VCP450988
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-071951



SAMPLE INFORMATION

Sample Number	VCP450988	VCP446677	VCP389329	VCP380962
Sample Date	16 May 2024	06 Feb 2024	18 Aug 2023	20 Dec 2022
Machine Hours	2440	1950	1443	937
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	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	43.5	44.9	44.3	43.3
Acid Number (AN)	mg KOH/g	0.28	0.38	0.39	0.45



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		3685	11135	---	7571
Particles >6µm		554	2465	---	801
Particles >14µm		25	181	---	31
ISO 4406:1999 (c)		19/16/12	21/18/15	---	20/17/12
Silicon	ppm	4	3	3	4
Sodium	ppm	1	1	<1	<1
Potassium	ppm	0	0	<1	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	5	3	4	3
Copper	ppm	2	2	3	3
Lead	ppm	1	<1	2	2
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	<1	2	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	75	86	73	67
Magnesium	ppm	6	16	6	6
Zinc	ppm	438	446	451	427
Phosphorus	ppm	338	333	338	335
Barium	ppm	0	0	0	0
Boron	ppm	0	1	0	0

Depot: SAIBIR
Unique No: 11035538
Signed: Jonathan Hester
Report Date: 22 May 2024

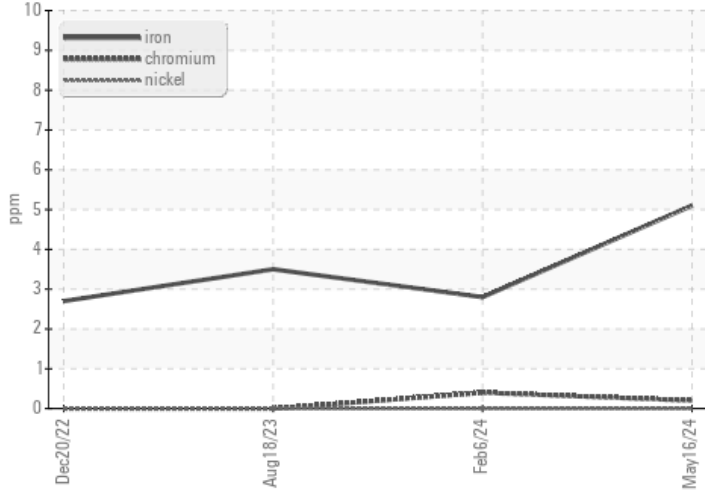


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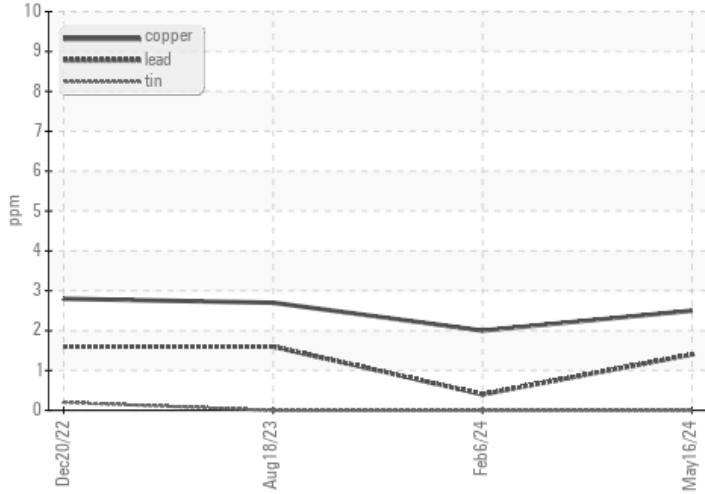


GRAPHS

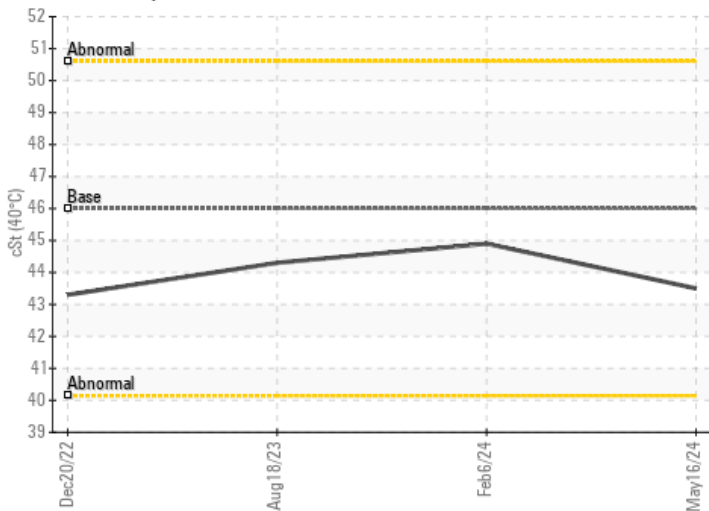
Ferrous Alloys



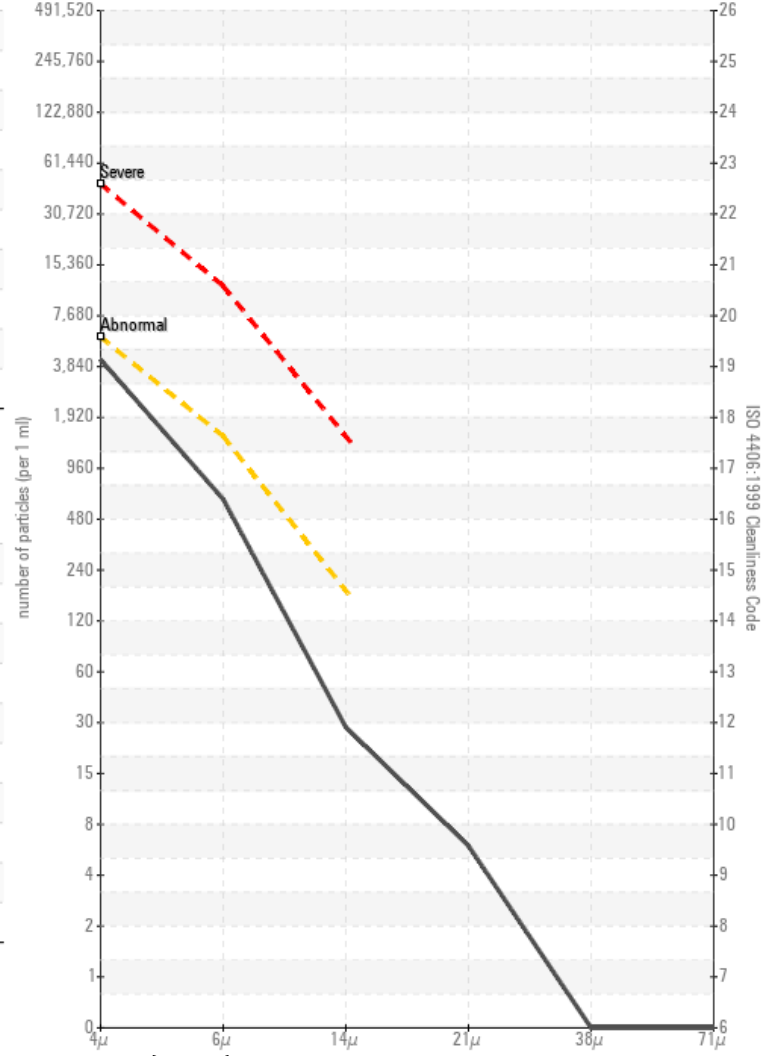
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

