



CONSTRUCTION EQUIPMENT

SWO-071762 VOLVO A60 340104 - HYDRAULIC SYSTEM



Sample No: VCP449649
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-071762



SAMPLE INFORMATION

Sample Number	VCP449649	VCP435588	VCP411753	VCP406455
Sample Date	15 May 2024	30 Nov 2023	24 Aug 2023	17 Apr 2023
Machine Hours	9718	9185	8689	8086
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	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	43.3	42.6	43.0	41.3
Acid Number (AN)	mg KOH/g	0.58	0.42	0.43	0.50



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 89338	1926	2530	487
Particles >6µm		▲ 28457	587	663	130
Particles >14µm		▲ 436	38	25	24
ISO 4406:1999 (c)		24/22/16	18/16/12	19/17/12	16/14/12
Silicon	ppm	4	5	5	6
Sodium	ppm	<1	2	<1	2
Potassium	ppm	0	0	1	0

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates 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	5	3	4	7
Copper	ppm	2	2	2	4
Lead	ppm	1	<1	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	3	2
Chromium	ppm	1	1	1	2
Molybdenum	ppm	2	<1	2	3
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	129	126	142	139
Magnesium	ppm	113	53	22	28
Zinc	ppm	573	489	496	466
Phosphorus	ppm	469	387	397	374
Barium	ppm	0	0	0	0
Boron	ppm	<1	2	<1	2

Depot: SAIBIR
Unique No: 11035558
Signed: Jonathan Hester
Report Date: 22 May 2024

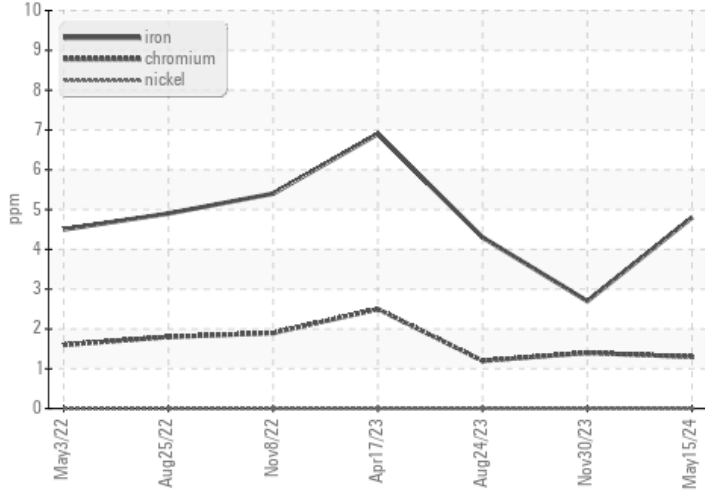


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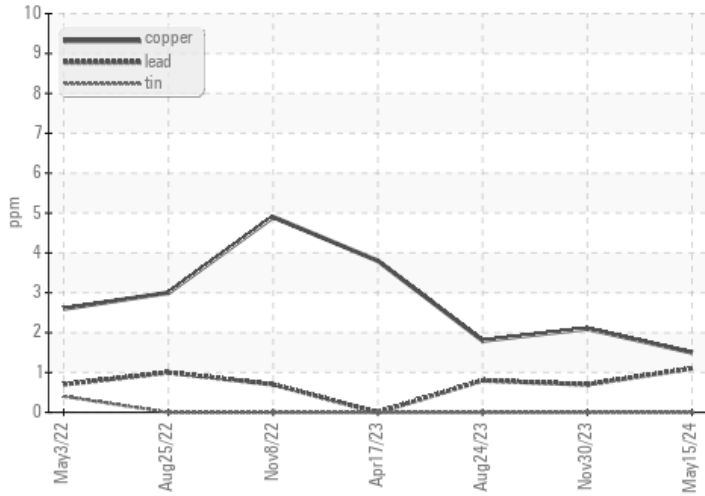


GRAPHS

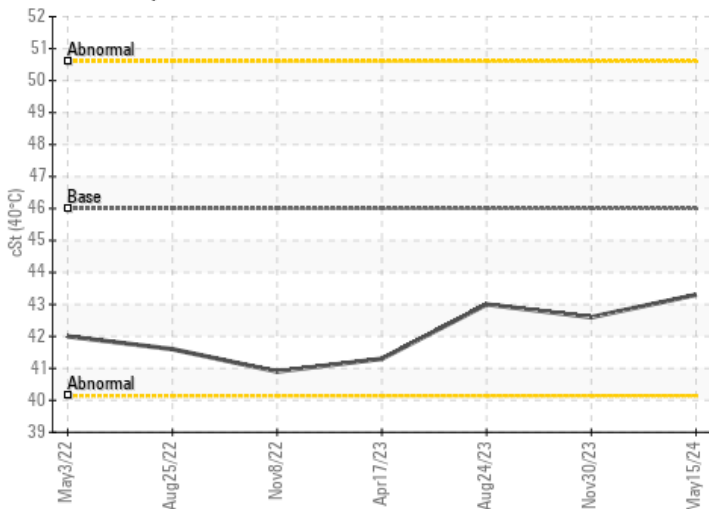
Ferrous Alloys



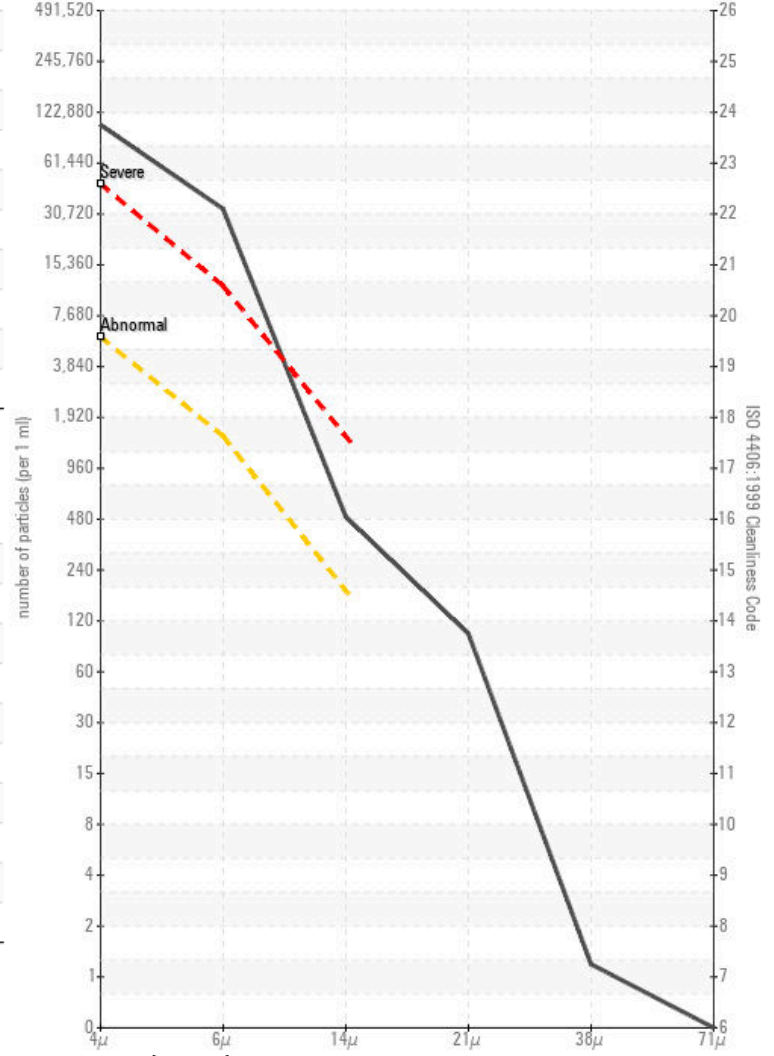
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

