



CONSTRUCTION EQUIPMENT

SWO-071952 VOLVO A45G 352969 - HYDRAULIC SYSTEM



Sample No: VCP452459
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-071952



SAMPLE INFORMATION

Sample Number	VCP452459	VCP446716	VCP414707	VCP433935
Sample Date	23 May 2024	27 Feb 2024	20 Dec 2023	19 Sep 2023
Machine Hours	3944	3453	2980	2491
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	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	43.2	41.9	43.4	43.0
Acid Number (AN)	mg KOH/g	0.41	0.40	0.40	0.44



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		23155	---	2152	1525
Particles >6µm		4957	---	387	327
Particles >14µm		112	---	19	19
ISO 4406:1999 (c)		22/19/14	---	18/16/11	18/16/11
Silicon	ppm	6	4	5	5
Sodium	ppm	0	0	<1	<1
Potassium	ppm	<1	0	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 component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	8	3	5	5
Copper	ppm	3	<1	2	2
Lead	ppm	3	1	2	2
Tin	ppm	<1	0	0	<1
Aluminum	ppm	<1	<1	0	0
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	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	<1



ADDITIVES

Calcium	ppm	97	118	83	79
Magnesium	ppm	66	20	17	16
Zinc	ppm	517	467	471	443
Phosphorus	ppm	385	358	369	357
Barium	ppm	0	1	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 11057470
Signed: Don Baldrige
Report Date: 01 Jun 2024

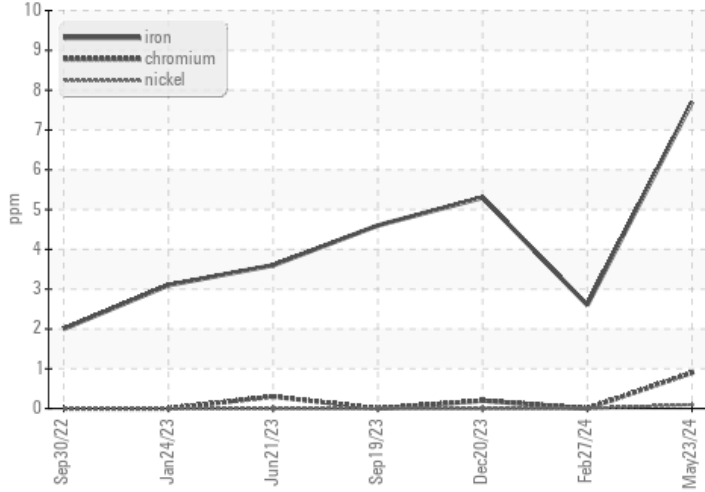


CONSTRUCTION EQUIPMENT

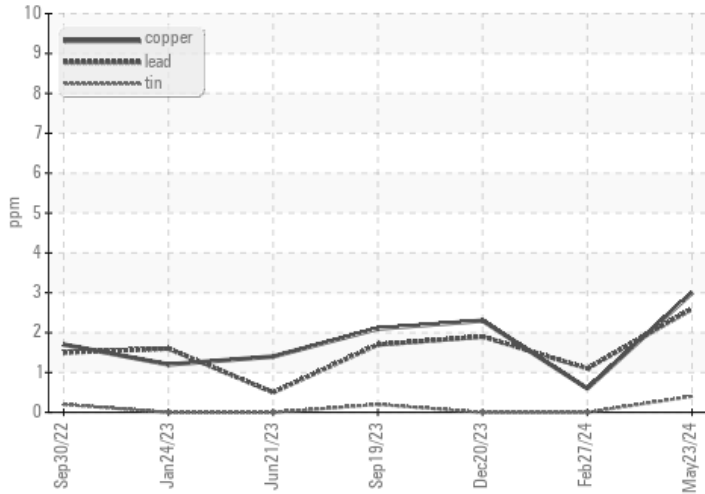


VOLVO GRAPHS

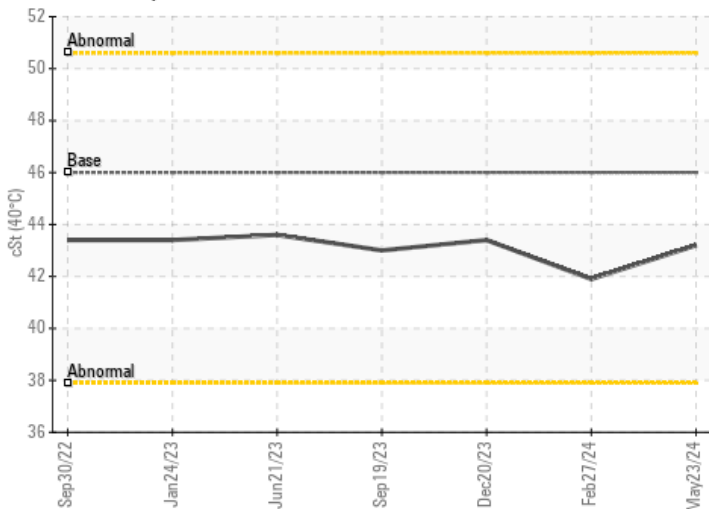
Ferrous Alloys



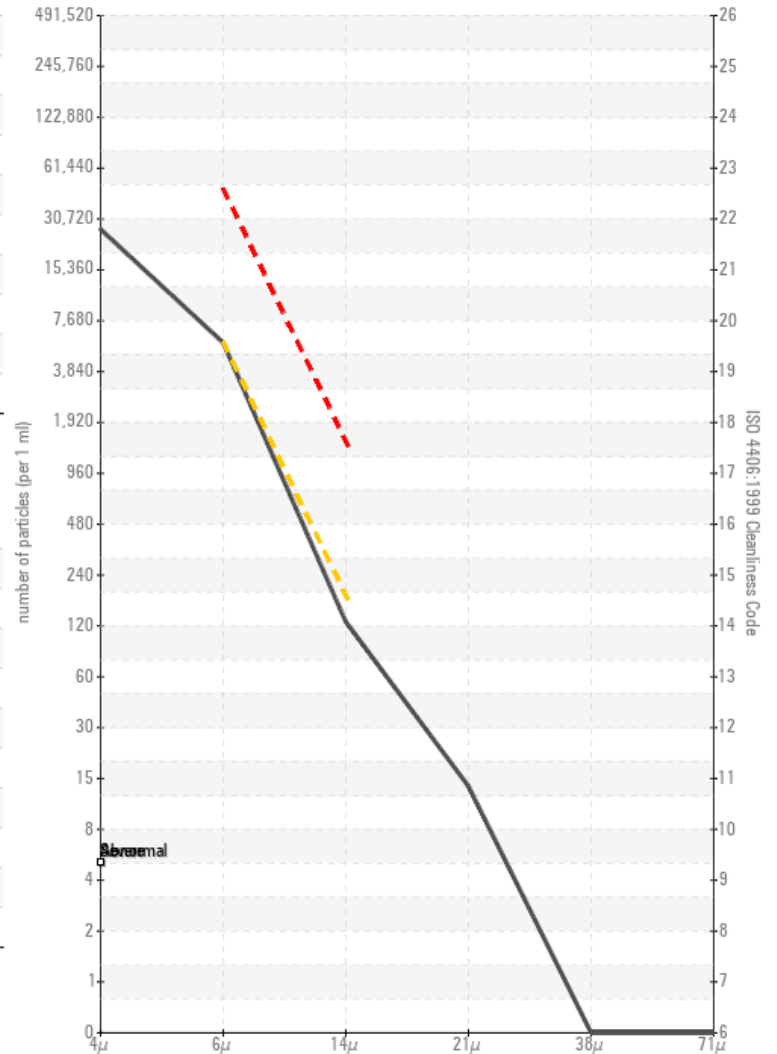
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

