



CONSTRUCTION EQUIPMENT

VOLVO A40G 352566 - HYDRAULIC SYSTEM



Sample No: VCP445499

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP445499	VCP435159	VCP331579	VCP312554
Sample Date	06 Jun 2024	02 Apr 2024	11 Dec 2023	04 Oct 2023
Machine Hours	6165	5666	5026	4584
Oil Hours	1581	1082	442	2218
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

SCHILDBERG CONSTRUCTION COMPANY
 PO BOX 358
 GREENFIELD, IA
 US 50849
 Contact: SCOTT ARMSTRONG
 sarmstrong@schildberg.com
 T: (641)743-8237
 F: (641)743-2486



OIL CONDITION

Visc @ 40°C	cSt	40.5	40.4	40.7	43.52
Acid Number (AN)	mg KOH/g	0.84	1.00	0.92	0.78



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		10933	8643	15294	---
Particles >6µm		3643	2361	5343	---
Particles >14µm		120	144	501	---
ISO 4406:1999 (c)		21/19/14	20/18/14	21/20/16	---
Silicon	ppm	14	14	12	13
Sodium	ppm	4	5	3	3
Potassium	ppm	1	0	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	7	4	4	6
Copper	ppm	2	2	1	2
Lead	ppm	2	1	<1	1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	3	2	1	2
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	3	1	2	1
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	2443	2449	2440	1743
Magnesium	ppm	20	20	19	12
Zinc	ppm	940	890	883	730
Phosphorus	ppm	772	771	727	605
Barium	ppm	0	0	0	0
Boron	ppm	6	<1	2	<1

Depot: SCHGRE
Unique No: 11084391
Signed: Don Baldrige
Report Date: 18 Jun 2024

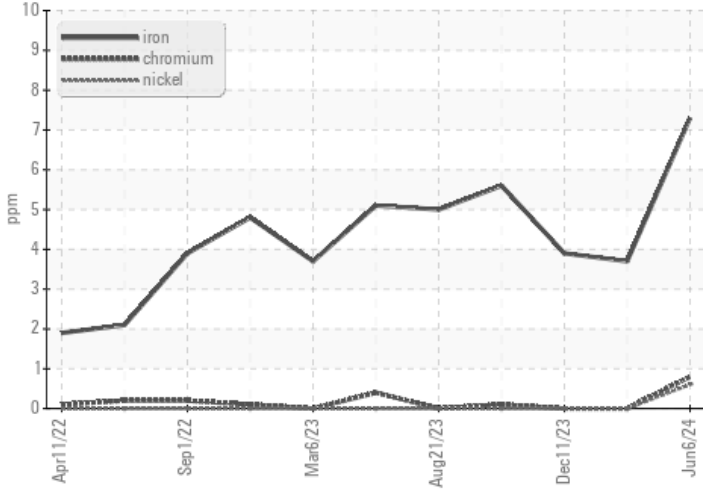


CONSTRUCTION EQUIPMENT

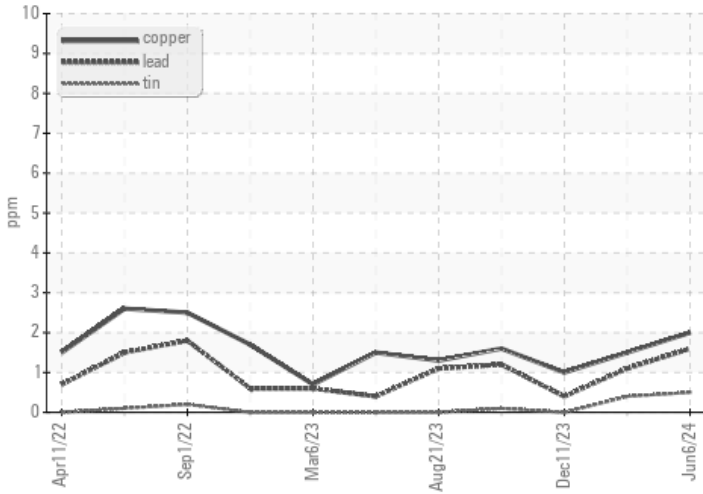


GRAPHS

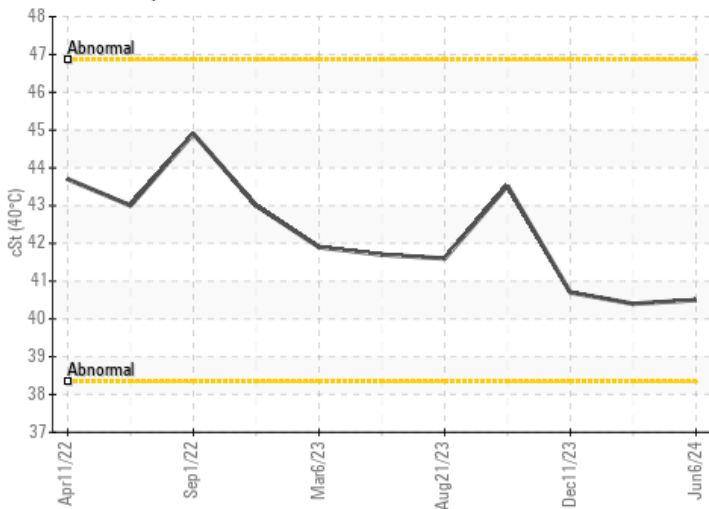
Ferrous Alloys



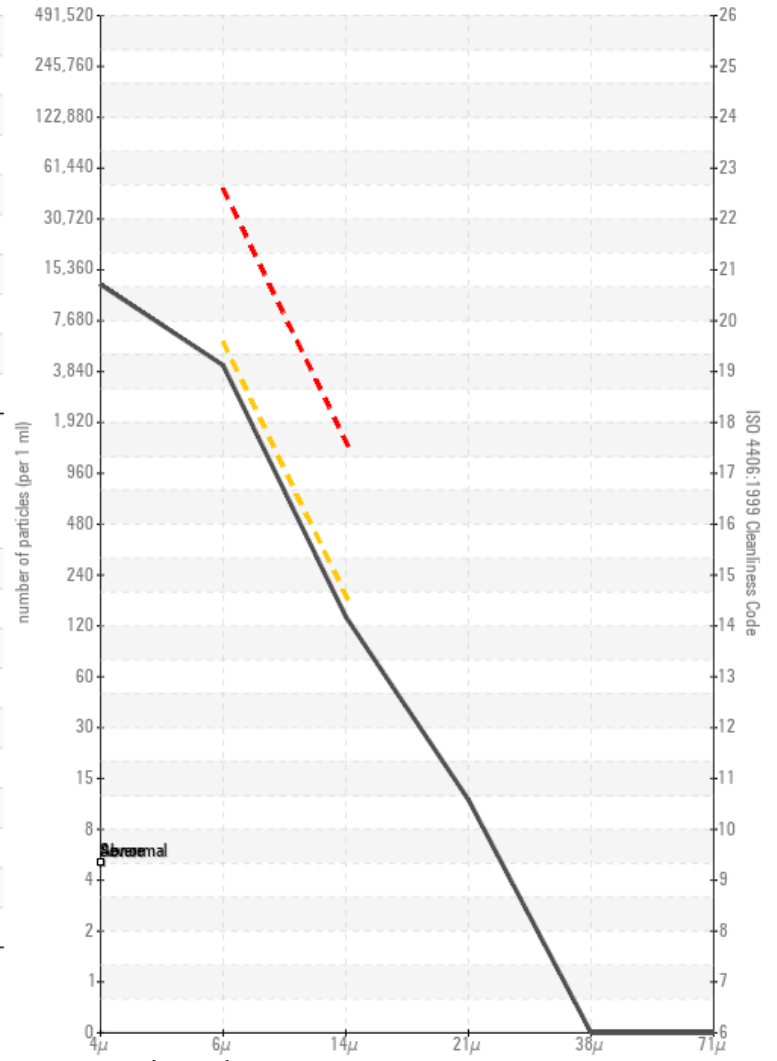
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

