



CONSTRUCTION EQUIPMENT

VOLVO A40G 352 198 - HYDRAULIC SYSTEM



Sample No: VCP447482

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP447482	VCP435153	VCP378565	VCP312688
Sample Date	07 Jun 2024	02 Apr 2024	14 Dec 2023	06 Sep 2023
Machine Hours	5957	5479	4956	4393
Oil Hours	2059	1581	1058	495
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 40°C	cSt	40.5	40.6	40.7	40.5
Acid Number (AN)	mg KOH/g	0.48	0.60	0.61	0.47



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		907	9689	13724	1250
Particles >6µm		317	2682	3211	237
Particles >14µm		21	63	133	18
ISO 4406:1999 (c)		17/15/12	20/19/13	21/19/14	17/15/11
Silicon	ppm	14	12	11	11
Sodium	ppm	4	4	3	2
Potassium	ppm	1	<1	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	8	4	5	4
Copper	ppm	4	3	3	2
Lead	ppm	3	2	2	2
Tin	ppm	<1	<1	0	0
Aluminum	ppm	4	2	1	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	2	<1	<1	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1439	1265	1326	1219
Magnesium	ppm	17	14	12	15
Zinc	ppm	806	664	668	636
Phosphorus	ppm	650	561	542	525
Barium	ppm	0	0	0	0
Boron	ppm	2	0	<1	0

Depot: SCHGRE
Unique No: 11084402
Signed: Don Baldrige
Report Date: 18 Jun 2024

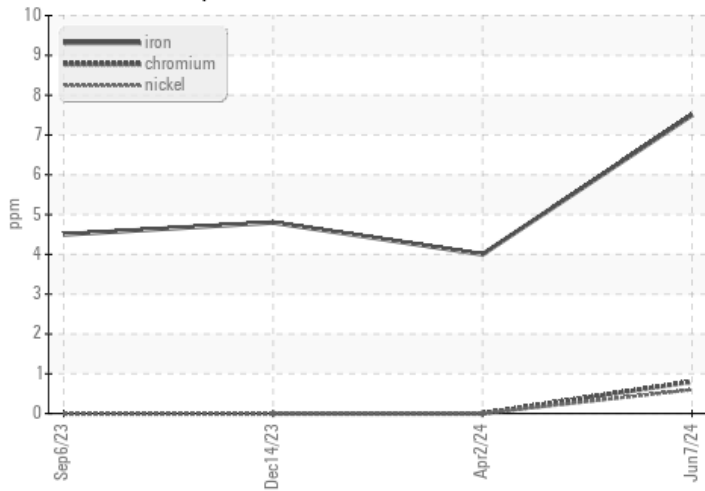


CONSTRUCTION EQUIPMENT

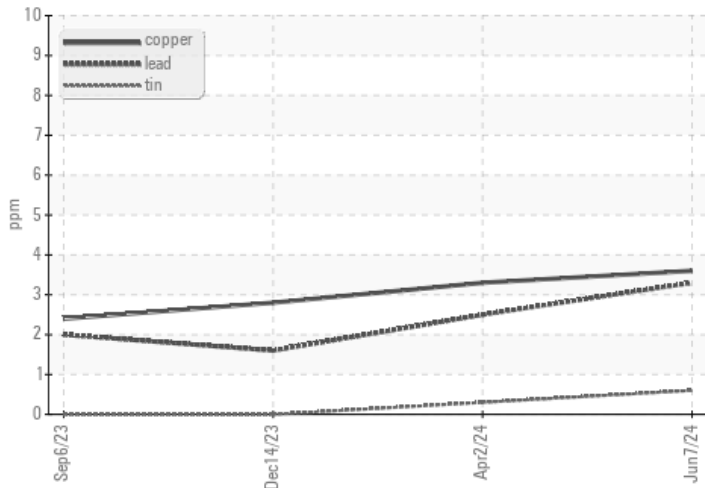


GRAPHS

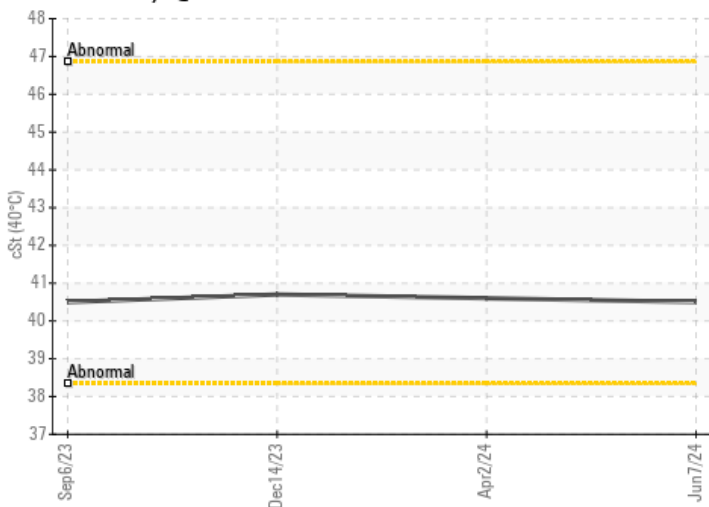
Ferrous Alloys



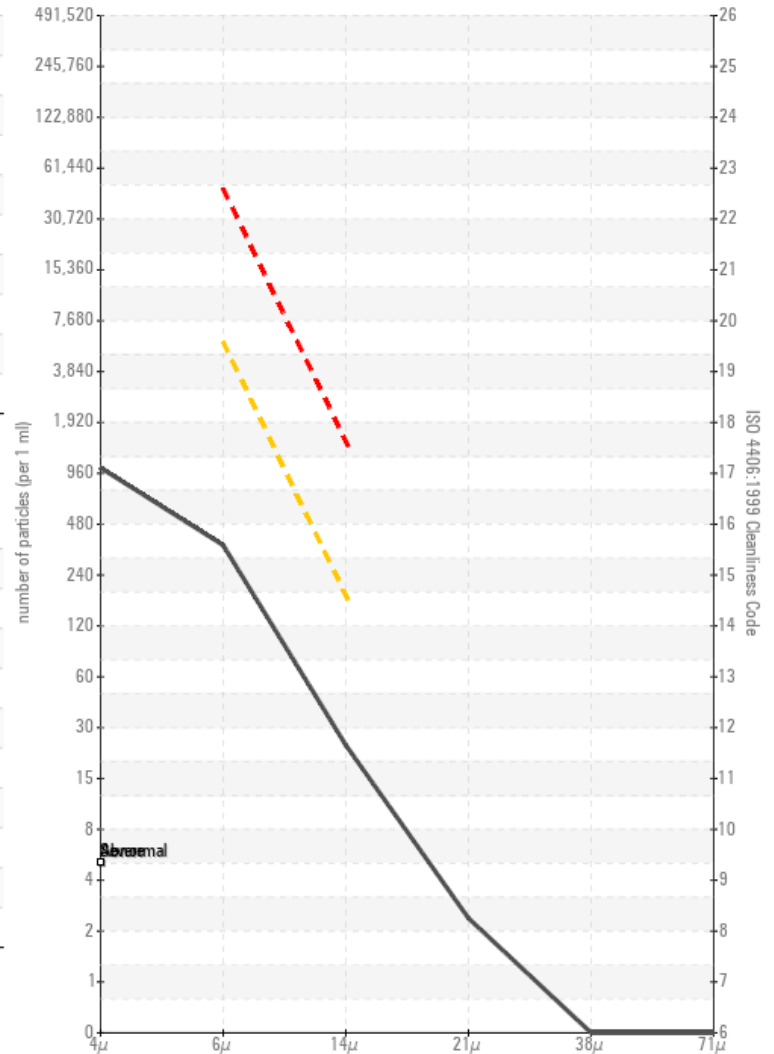
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

