



CONSTRUCTION EQUIPMENT

VOLVO A40G 352351 - HYDRAULIC SYSTEM



Sample No: VCP444709

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP444709	VCP339708	VCP339687	VCP406467
Sample Date	29 Apr 2024	07 Nov 2023	03 Oct 2023	13 Jul 2023
Machine Hours	8835	7750	7502	6886
Oil Hours	1085	2033	1785	1169
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

SCHILDBERG CONSTRUCTION COMPANY

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OIL CONDITION

Visc @ 40°C	cSt	39.2	40.1	40.1	40.1
Acid Number (AN)	mg KOH/g	1.05	0.96	0.96	0.95



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		3305	816	37110	42114
Particles >6µm		678	144	11543	16887
Particles >14µm		5	9	483	1630
ISO 4406:1999 (c)		19/17/10	17/14/10	22/21/16	23/21/18
Silicon	ppm	14	14	14	12
Sodium	ppm	4	0	4	2
Potassium	ppm	0	3	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 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	4	5	4	4
Copper	ppm	<1	2	1	<1
Lead	ppm	<1	1	1	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	3	2	2	2
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	2	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2720	2604	2465	2554
Magnesium	ppm	19	20	19	23
Zinc	ppm	927	947	898	931
Phosphorus	ppm	779	793	739	749
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	1	<1

Depot: SCHGRE

Unique No: 11018648

Signed: Don Baldrige

Report Date: 10 May 2024

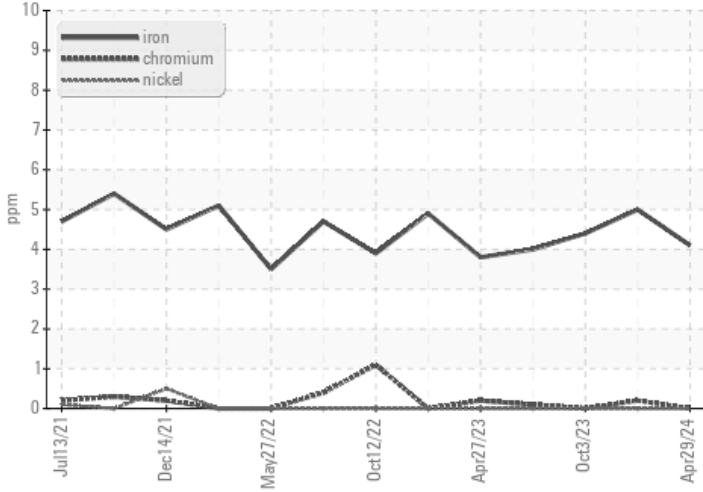


CONSTRUCTION EQUIPMENT

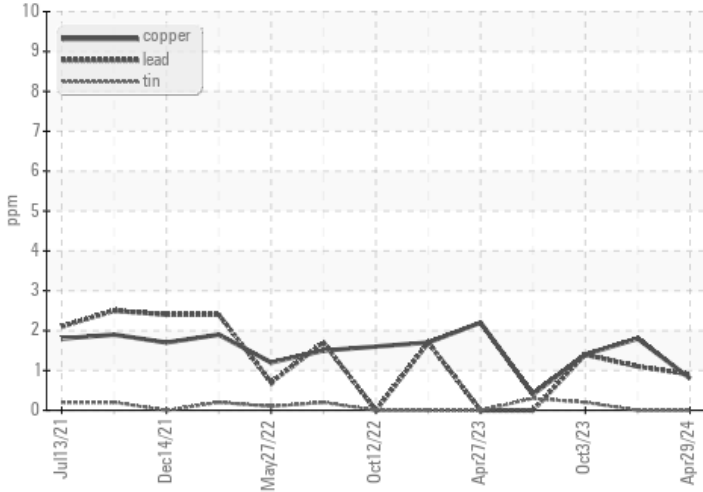


GRAPHS

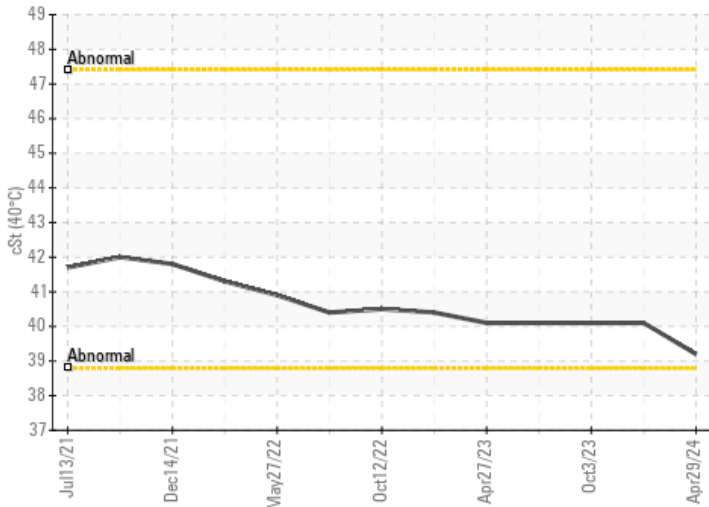
Ferrous Alloys



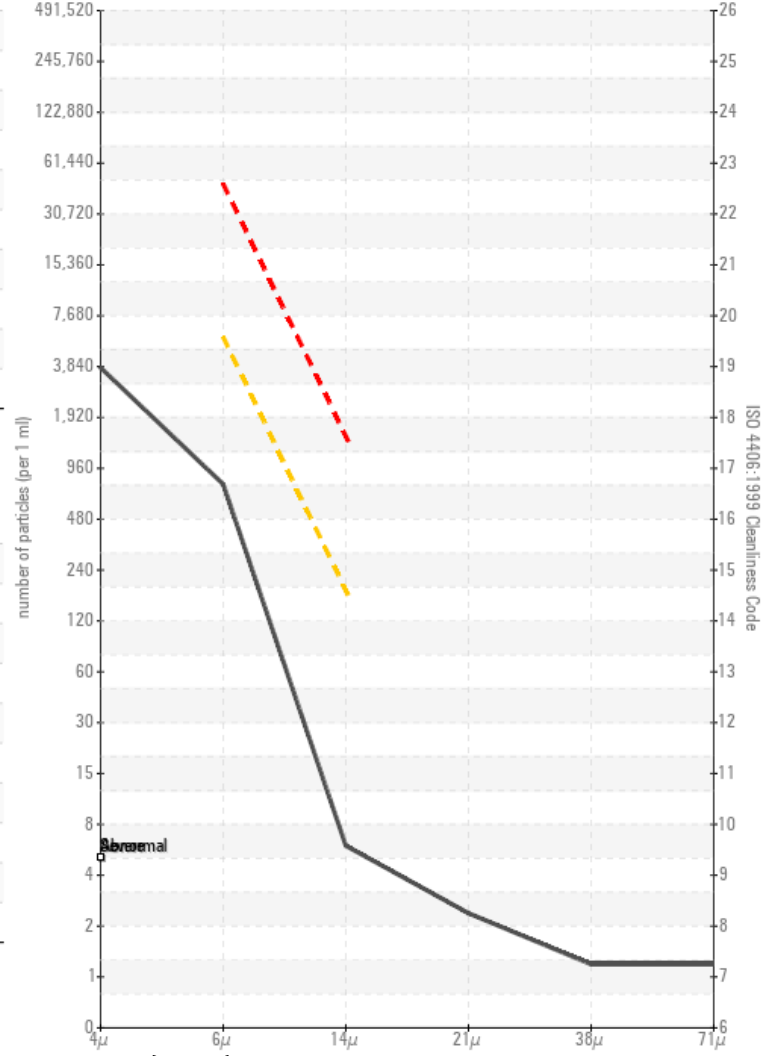
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

