



CONSTRUCTION EQUIPMENT

VOLVO A40G 342374 - HYDRAULIC SYSTEM



Sample No: VCP445786

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP445786	VCP442503	VCP398007	VCP385237
Sample Date	15 Apr 2024	05 Feb 2024	29 Aug 2023	07 Jun 2023
Machine Hours	11573	11098	10584	10123
Oil Hours	1450	975	731	2120
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	ATTENTION	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	39.4	39.5	39.9	39.3
Acid Number (AN)	mg KOH/g	1.14	1.01	1.17	1.18



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		15937	33665	69313	744
Particles >6µm		3214	6637	23586	90
Particles >14µm		54	276	1275	6
ISO 4406:1999 (c)		21/19/13	22/20/15	23/22/17	17/14/10
Silicon	ppm	12	14	13	15
Sodium	ppm	2	1	2	4
Potassium	ppm	0	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	3	2	1	4
Copper	ppm	<1	<1	<1	2
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	2	2	1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	2	1	1	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	3097	3265	3219	3269
Magnesium	ppm	24	28	30	22
Zinc	ppm	942	1117	1033	1206
Phosphorus	ppm	863	905	881	954
Barium	ppm	0	0	0	0
Boron	ppm	1	3	3	<1

Depot: SCHGRE
Unique No: 11009023
Signed: Don Baldrige
Report Date: 07 May 2024

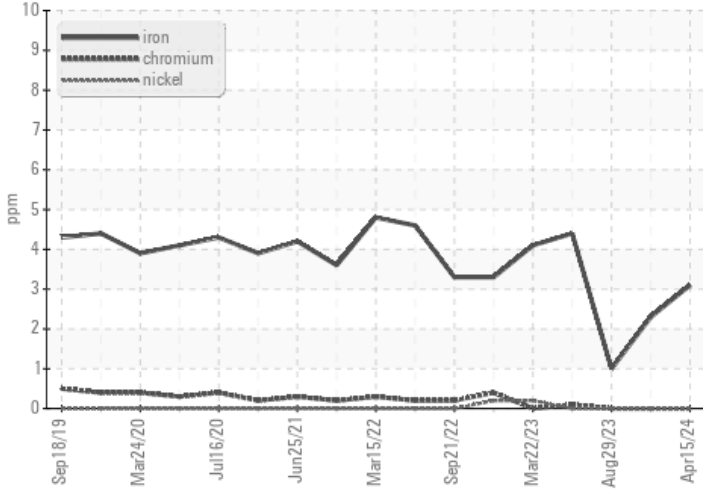


CONSTRUCTION EQUIPMENT

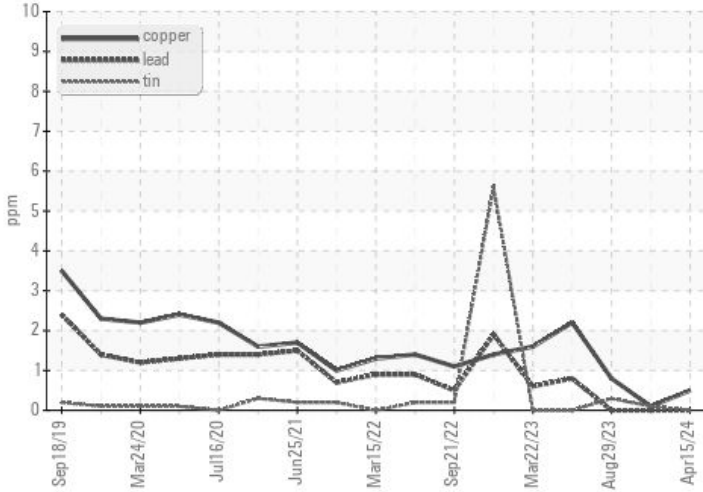


VOLVO GRAPHS

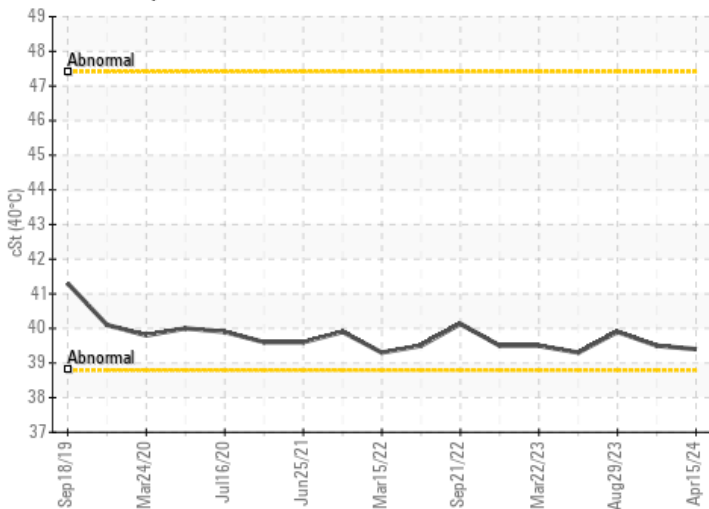
Ferrous Alloys



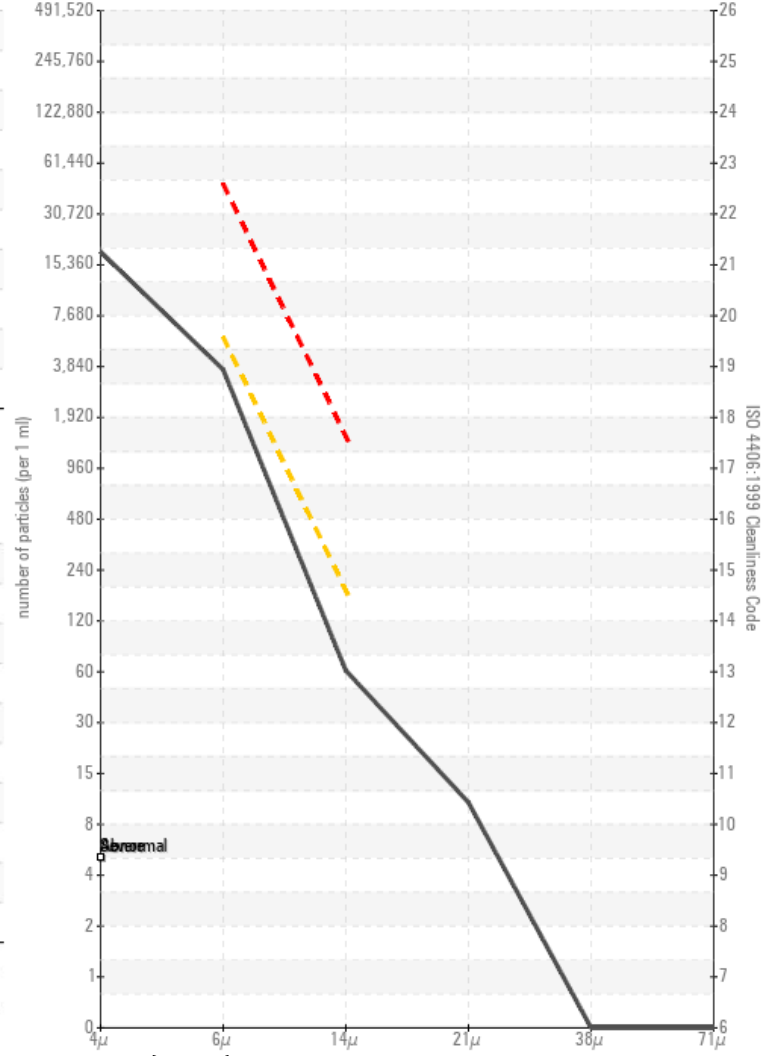
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

