



CONSTRUCTION EQUIPMENT

VOLVO A40G 341127 - HYDRAULIC SYSTEM



Sample No: VCP416752

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP416752	VCP404576	VCP385138	VCP359596
Sample Date	06 Feb 2024	24 Oct 2023	27 Apr 2023	16 Jan 2023
Machine Hours	14222	13756	12838	12357
Oil Hours	1865	1399	481	2078
Oil Changed	Changed	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	ABNORMAL	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	39.5	39.4	39.6	39.4
Acid Number (AN)	mg KOH/g	1.16	1.828	1.04	1.23



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1883	21397	24404	1484
Particles >6µm		419	6810	6941	353
Particles >14µm		19	536	245	11
ISO 4406:1999 (c)		18/16/11	22/20/16	22/20/15	18/16/11
Silicon	ppm	13	20	15	13
Sodium	ppm	4	2	3	0
Potassium	ppm	0	<1	0	2

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



ADDITIVES

Calcium	ppm	2829	2979	3066	3008
Magnesium	ppm	15	24	24	20
Zinc	ppm	906	1081	1071	1103
Phosphorus	ppm	814	874	878	923
Barium	ppm	0	0	0	0
Boron	ppm	<1	2	2	<1

Depot: SCHGRE
Unique No: 10898318
Signed: Don Baldrige
Report Date: 27 Feb 2024

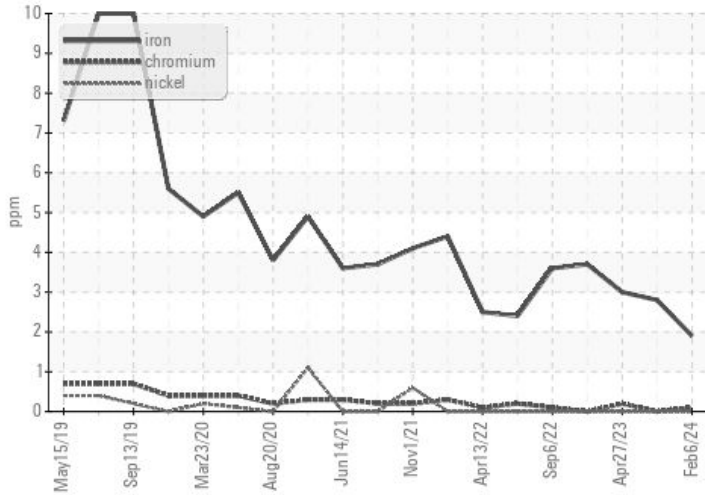


CONSTRUCTION EQUIPMENT

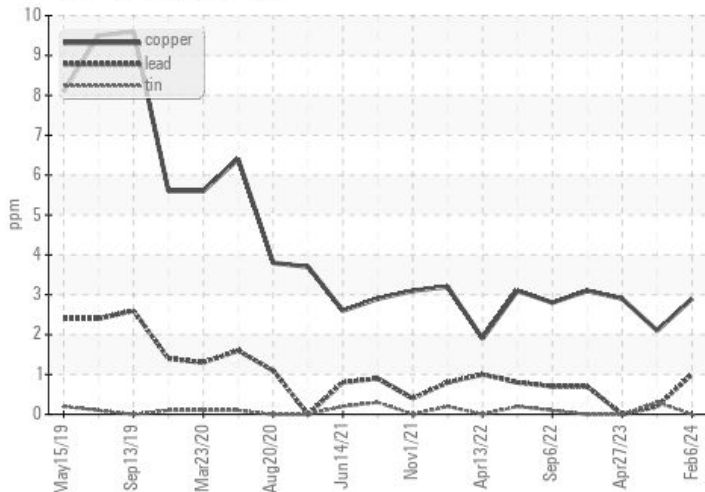


GRAPHS

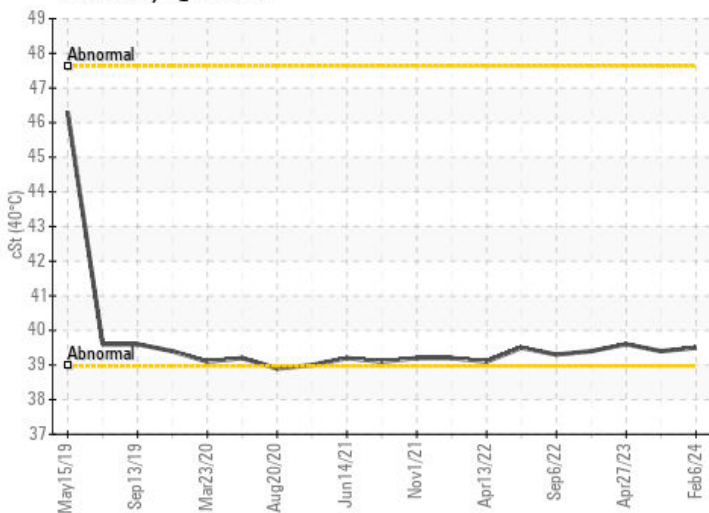
Ferrous Alloys



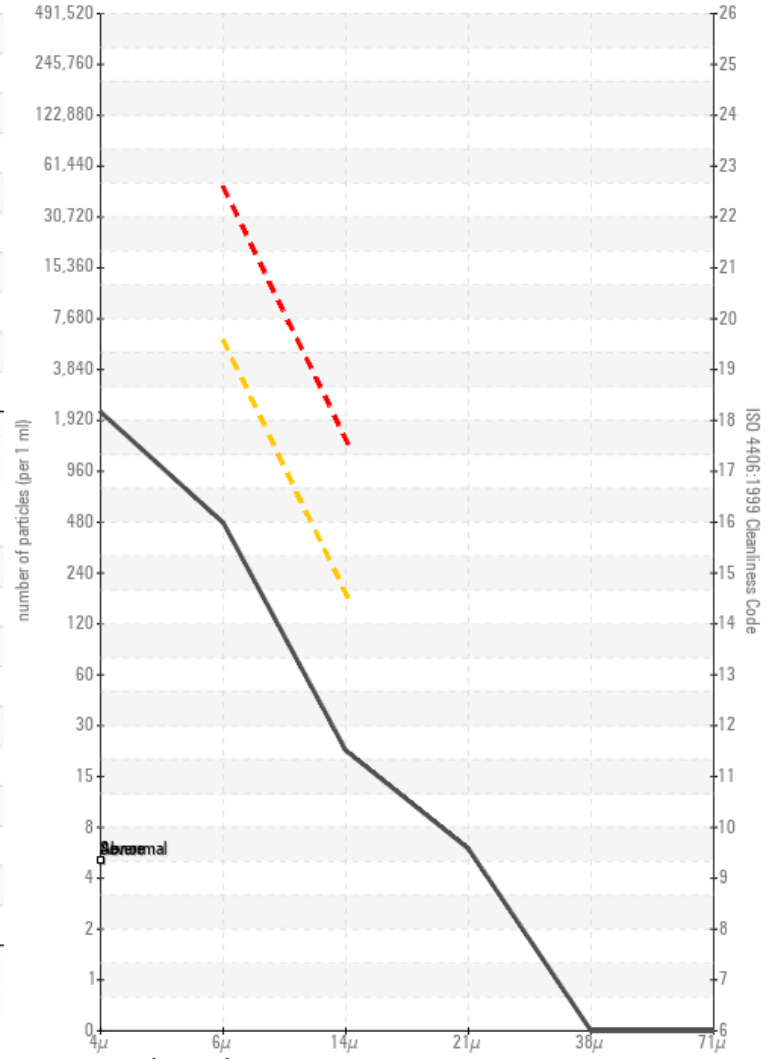
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

