



CONSTRUCTION EQUIPMENT

VOLVO A40F 1 1927 - HYDRAULIC SYSTEM



Sample No: VCP331514
Oil Type: MOBIL 10W
Job No:



SAMPLE INFORMATION

Sample Number	VCP331514	VCP312558	VCP312937	VCP373659
Sample Date	30 Jan 2024	10 Oct 2023	01 Sep 2023	24 Jan 2023
Machine Hours	25888	25332	25041	23982
Oil Hours	556	1933	1642	583
Oil Changed	Not Chngd	Changed	Not Chngd	Changed
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	39.1	39.6	40.1	39.6
Acid Number (AN)	mg KOH/g	1.38	1.30	1.37	1.35



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		25210	---	66022	62161
Particles >6µm		▲ 5656	---	▲ 15497	▲ 16567
Particles >14µm		▲ 178	---	▲ 676	▲ 649
ISO 4406:1999 (c)		22/20/15	---	23/21/17	23/21/17
Silicon	ppm	15	15	18	12
Sodium	ppm	4	3	3	2
Potassium	ppm	0	0	0	0

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present 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	4	7	8	6
Copper	ppm	<1	1	1	<1
Lead	ppm	<1	<1	1	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	2	2	<1	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	2	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3167	3280	3256	3093
Magnesium	ppm	19	25	30	23
Zinc	ppm	985	1103	1134	985
Phosphorus	ppm	870	894	913	806
Barium	ppm	0	0	0	0
Boron	ppm	2	3	2	1

Depot: SCHGRE
Unique No: 10898310
Signed: Wes Davis
Report Date: 27 Feb 2024

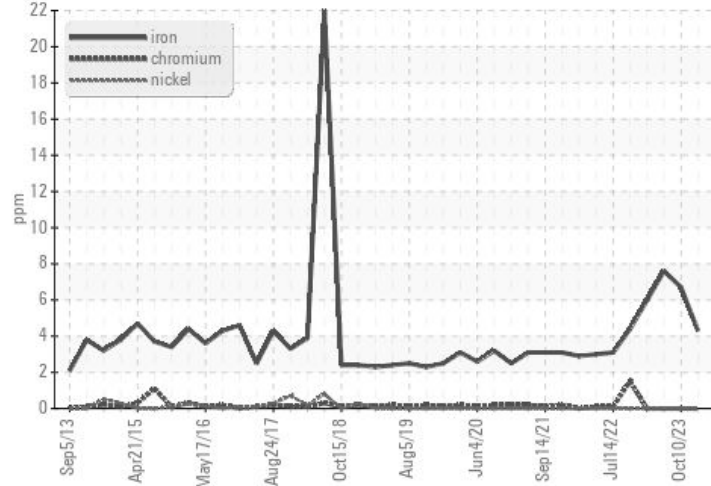


CONSTRUCTION EQUIPMENT

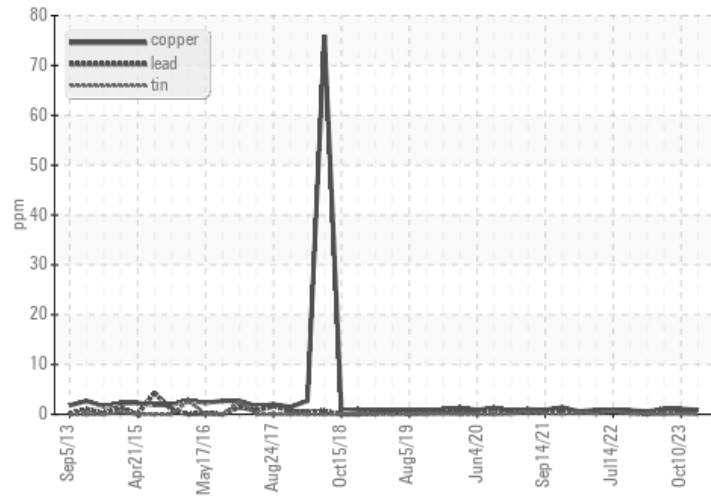


VOLVO GRAPHS

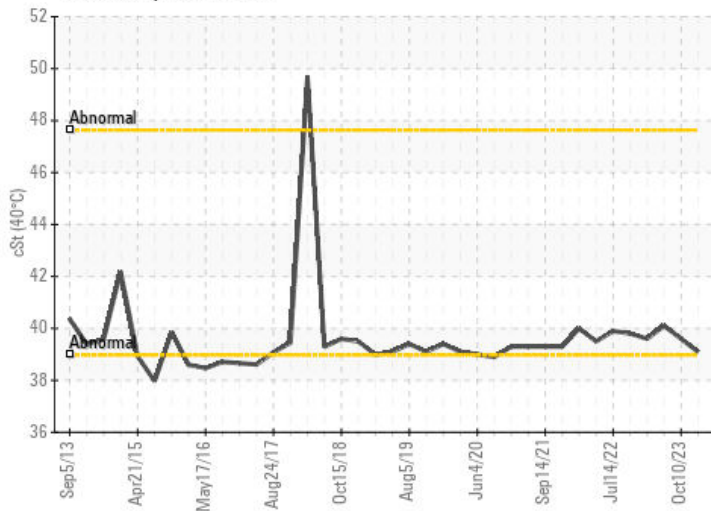
Ferrous Alloys



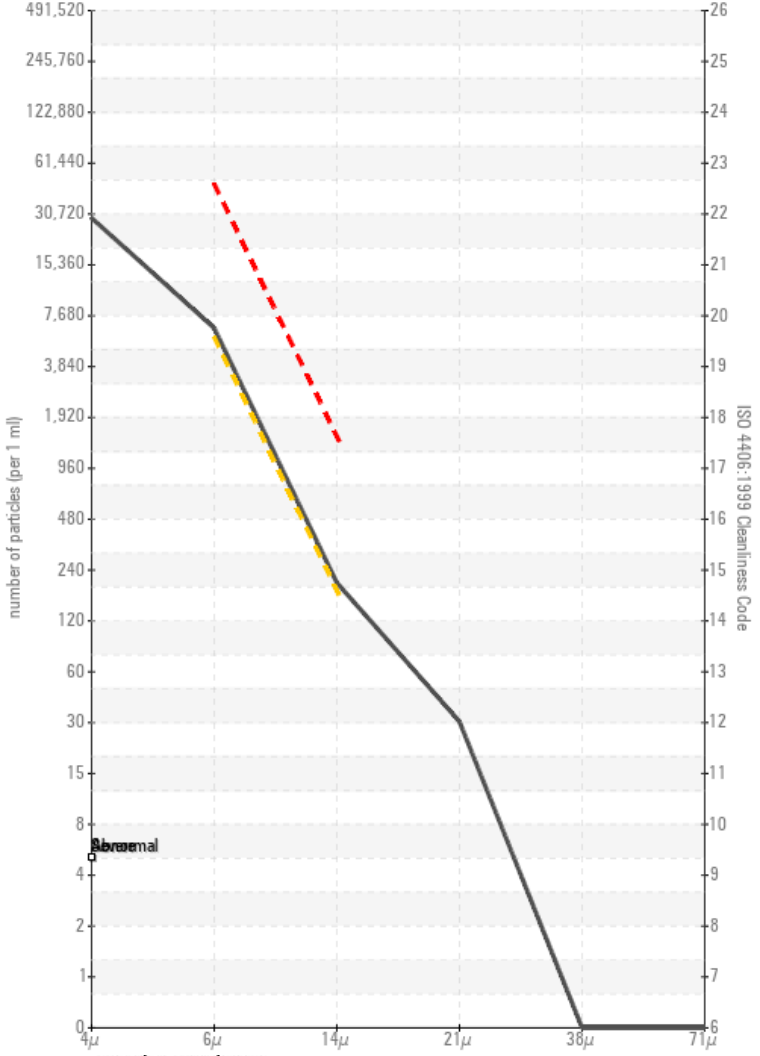
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

