



CONSTRUCTION EQUIPMENT

VOLVO A40F 12386 - HYDRAULIC SYSTEM



Sample No: VCP447723

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP447723	VCP435807	VCP404901	VCP385091
Sample Date	18 Jun 2024	22 Feb 2024	22 Mar 2023	06 Dec 2022
Machine Hours	13301	12894	10781	10272
Oil Hours	1919	1512	1398	889
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	ABNORMAL



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OIL CONDITION

Visc @ 40°C	cSt	38.1	38.6	40.0	40.1
Acid Number (AN)	mg KOH/g	1.30	1.47	1.29	1.31



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		17009	29287	12020	37015
Particles >6µm		7129	9435	3029	12743
Particles >14µm		653	596	101	708
ISO 4406:1999 (c)		21/20/17	22/20/16	21/19/14	22/21/17
Silicon	ppm	12	10	13	16
Sodium	ppm	2	2	0	3
Potassium	ppm	<1	0	2	0

Diagnosis

No corrective action is recommended at this time. Oil and 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 high amount of particulates 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	3	1	3	2
Copper	ppm	<1	<1	1	<1
Lead	ppm	0	0	<1	2
Tin	ppm	0	0	0	6
Aluminum	ppm	2	1	<1	4
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	2	2	1	2
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3304	3239	3109	3414
Magnesium	ppm	21	20	17	22
Zinc	ppm	1028	1017	1128	1215
Phosphorus	ppm	901	875	929	1035
Barium	ppm	0	0	0	0
Boron	ppm	1	0	<1	4

Depot: SCHGRE
Unique No: 11110826
Signed: Don Baldrige
Report Date: 06 Jul 2024

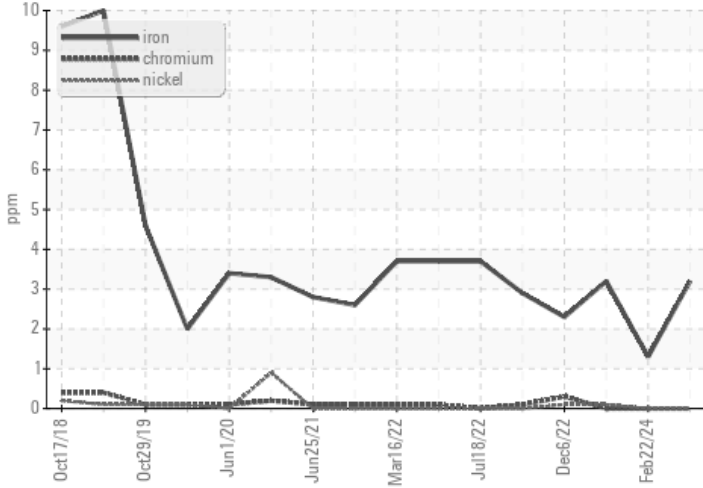


CONSTRUCTION EQUIPMENT

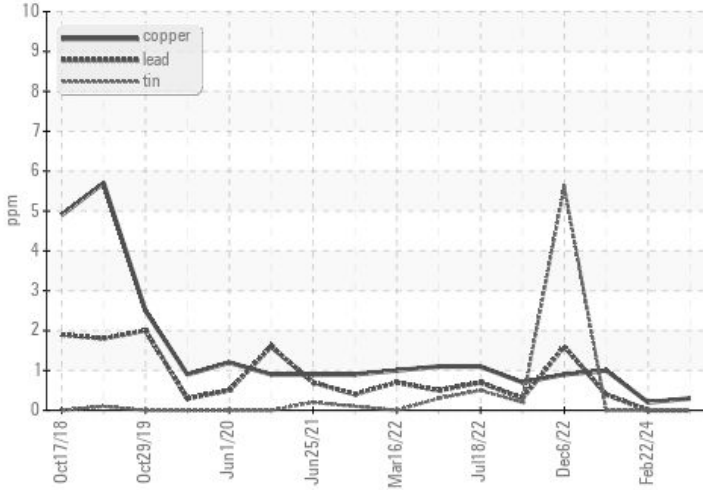


VOLVO GRAPHS

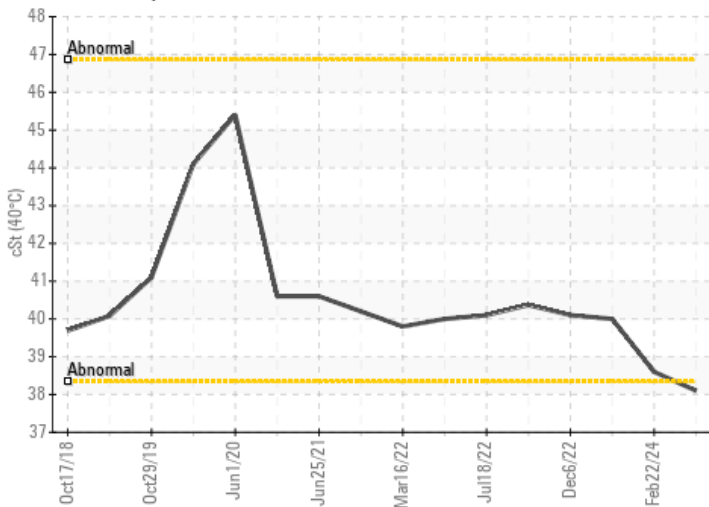
Ferrous Alloys



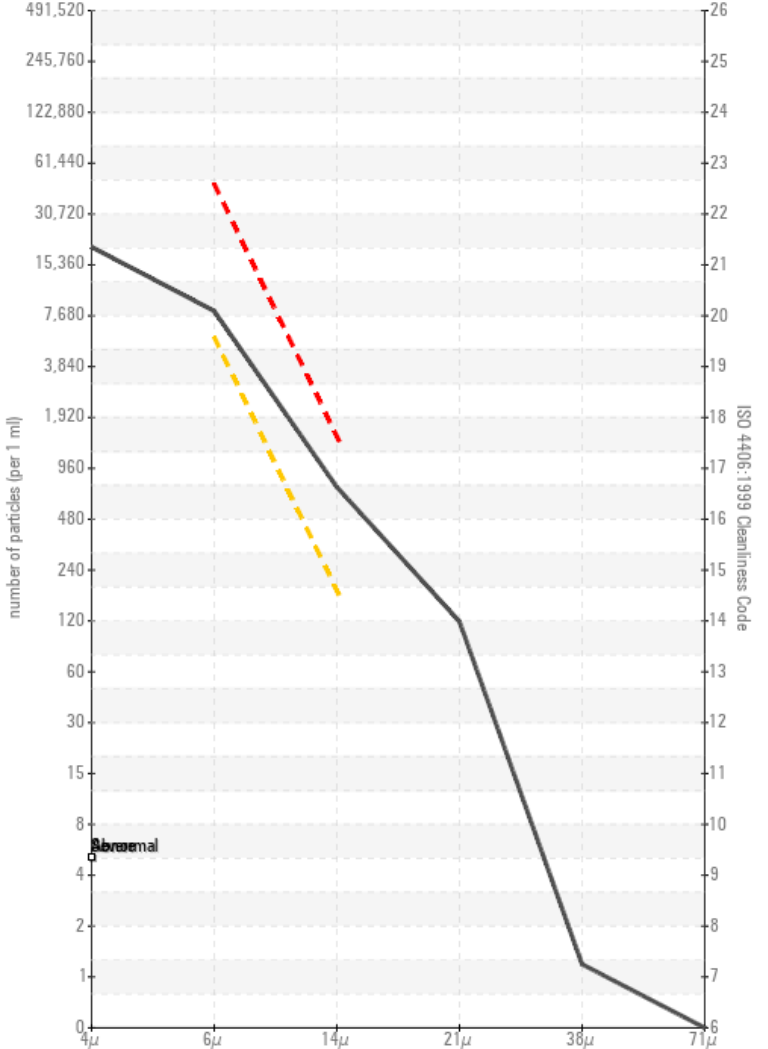
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

