



CONSTRUCTION EQUIPMENT

SWO-064335 VOLVO A40F 11843 - HYDRAULIC SYSTEM



Sample No: VCP414174
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-064335



SAMPLE INFORMATION

Sample Number	VCP414174	VCP421747	VCP397072	VCP404344
Sample Date	02 Aug 2023	21 Apr 2023	12 Apr 2023	08 Dec 2022
Machine Hours	6103	4800	5555	5050
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.7	▲ 61.08	43.3	44.7
Acid Number (AN)	mg KOH/g	0.48	0.60	0.32	0.42



CONTAMINATION

Particles >4µm		17366	---	1711	6702
Particles >6µm		1207	---	441	2223
Particles >14µm		10	---	26	158
ISO 4406:1999 (c)		21/17/10	---	18/16/12	20/18/14
Silicon	ppm	3	3	4	3
Sodium	ppm	0	3	2	1
Potassium	ppm	2	0	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	7	8	8	5
Copper	ppm	2	17	3	4
Lead	ppm	3	0	0	3
Tin	ppm	<1	0	0	0
Aluminum	ppm	1	4	<1	<1
Chromium	ppm	4	2	1	4
Molybdenum	ppm	<1	1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	95	86	70	96
Magnesium	ppm	18	2	8	13
Zinc	ppm	525	570	448	498
Phosphorus	ppm	370	393	329	384
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10589286
Signed: Don Baldrige
Report Date: 08 Aug 2023

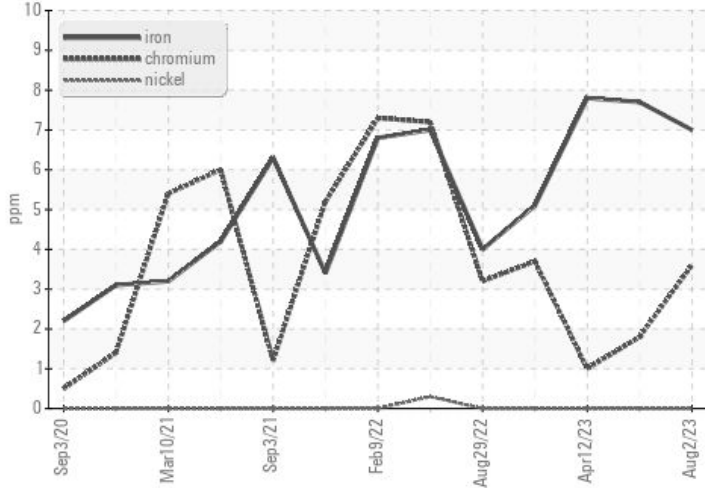


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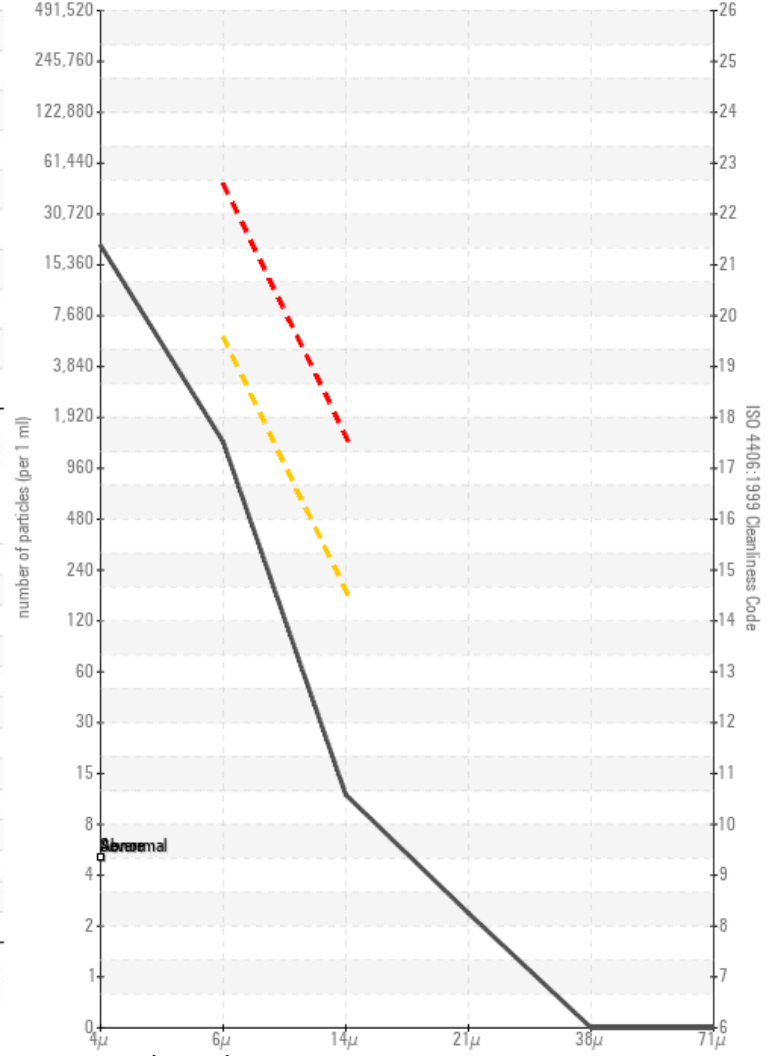


GRAPHS

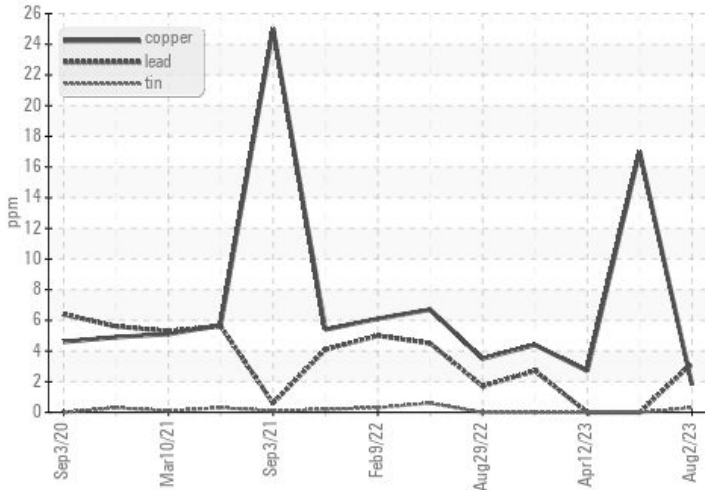
Ferrous Alloys



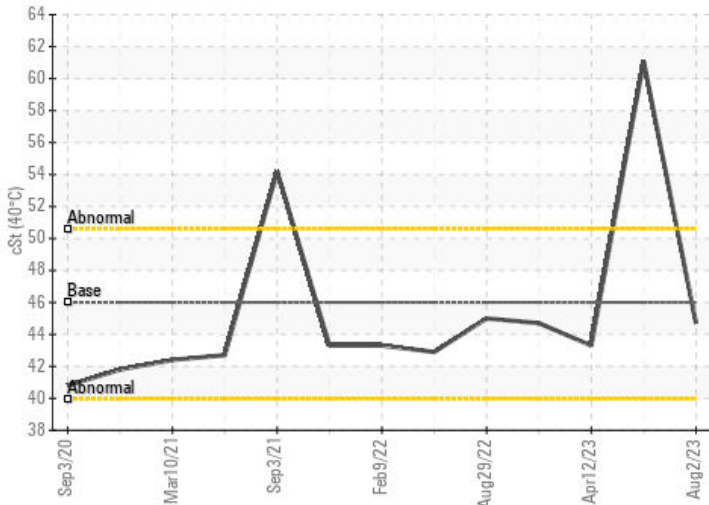
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

