



CONSTRUCTION EQUIPMENT

VOLVO A40F 11927 - HYDRAULIC SYSTEM



Sample No: VCP452541

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP452541	VCP331514	VCP312558	VCP312937
Sample Date	09 May 2024	30 Jan 2024	10 Oct 2023	01 Sep 2023
Machine Hours	26525	25888	25332	25041
Oil Hours	1193	556	1933	1642
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	ATTENTION	ABNORMAL	ABNORMAL

SCHILDBERG CONSTRUCTION COMPANY
 PO BOX 358
 GREENFIELD, IA
 US 50849
 Contact: SCOTT ARMSTRONG
 sarmstrong@schildberg.com
 T: (641)743-8237
 F: (641)743-2486



OIL CONDITION

Visc @ 40°C	cSt	39.2	39.1	39.6	40.1
Acid Number (AN)	mg KOH/g	1.47	1.38	1.30	1.37



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		9060	25210	---	66022
Particles >6µm		1783	5656	---	15497
Particles >14µm		18	178	---	676
ISO 4406:1999 (c)		20/18/11	22/20/15	---	23/21/17
Silicon	ppm	16	15	15	18
Sodium	ppm	0	4	3	3
Potassium	ppm	2	0	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	6	4	7	8
Copper	ppm	1	<1	1	1
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	2	2	<1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	3	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3403	3167	3280	3256
Magnesium	ppm	24	19	25	30
Zinc	ppm	1103	985	1103	1134
Phosphorus	ppm	852	870	894	913
Barium	ppm	0	0	0	0
Boron	ppm	3	2	3	2

Depot: SCHGRE
Unique No: 11075177
Signed: Angela Borella
Report Date: 14 Jun 2024

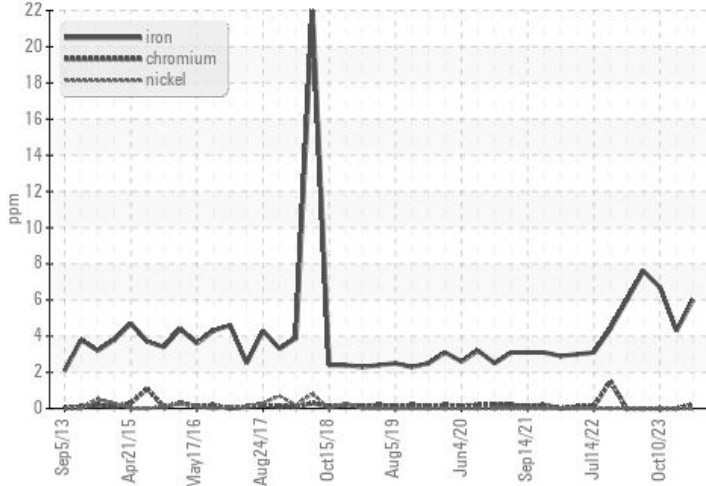


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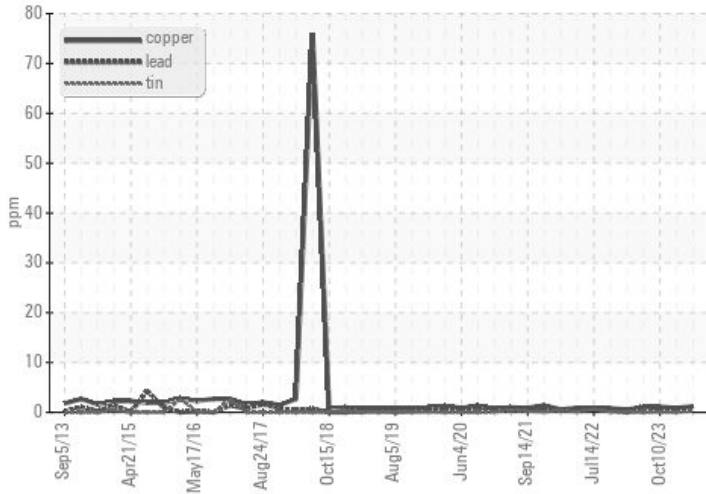


VOLVO GRAPHS

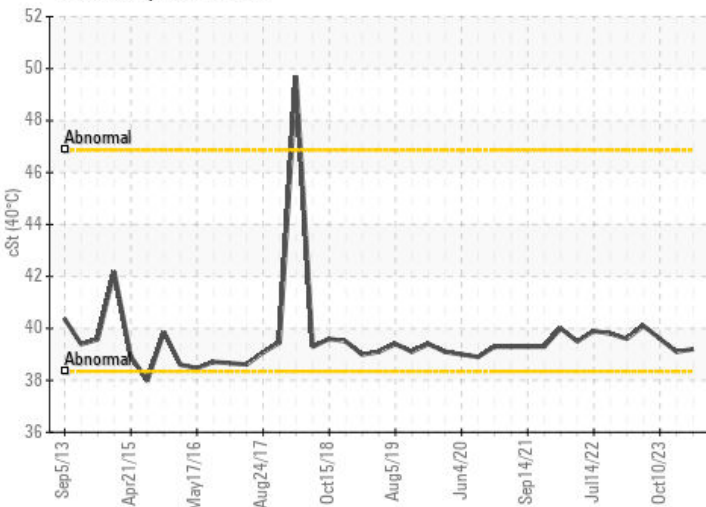
Ferrous Alloys



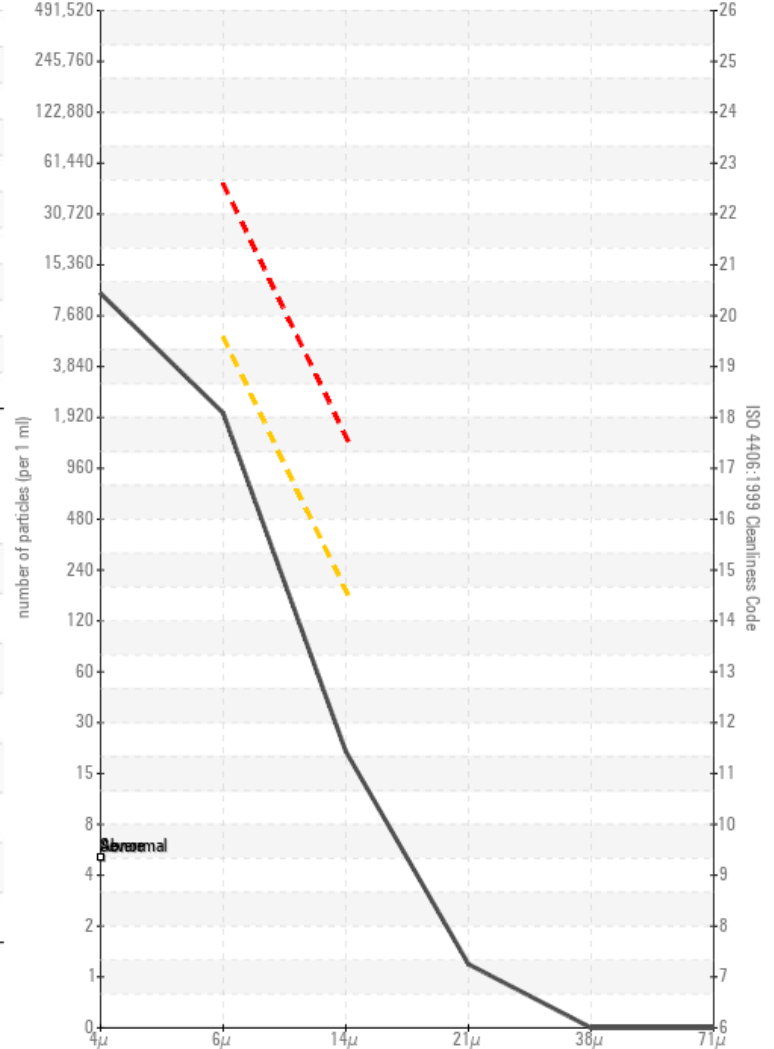
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

