



CONSTRUCTION EQUIPMENT

9242 VOLVO L110F 4768 - HYDRAULIC SYSTEM



Sample No: VCP416474
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: 9242



SAMPLE INFORMATION

Sample Number	VCP416474	VCP344623	VCP310027	VCP323942
Sample Date	13 Jul 2023	06 Dec 2021	27 Sep 2021	04 Jun 2021
Machine Hours	11933	10141	9912	9705
Oil Hours	0	250	4000	0
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 40°C	cSt	43.2	44.4	44.2	44.4
Acid Number (AN)	mg KOH/g	0.49	0.309	0.344	0.358



CONTAMINATION

Particles >4µm		1039	7143	1736	4089
Particles >6µm		159	1291	132	546
Particles >14µm		15	72	7	17
ISO 4406:1999 (c)		17/14/11	20/17/13	18/14/10	19/16/11
Silicon	ppm	2	2	3	2
Sodium	ppm	0	0	<1	0
Potassium	ppm	<1	0	<1	<1



WEAR METALS

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



ADDITIVES

Calcium	ppm	74	83	103	101
Magnesium	ppm	14	2	4	4
Zinc	ppm	502	483	462	452
Phosphorus	ppm	384	368	344	353
Barium	ppm	2	0	0	0
Boron	ppm	<1	0	2	3

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm.

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.

Depot: REPPER
Unique No: 10573173
Signed: Wes Davis
Report Date: 26 Jul 2023

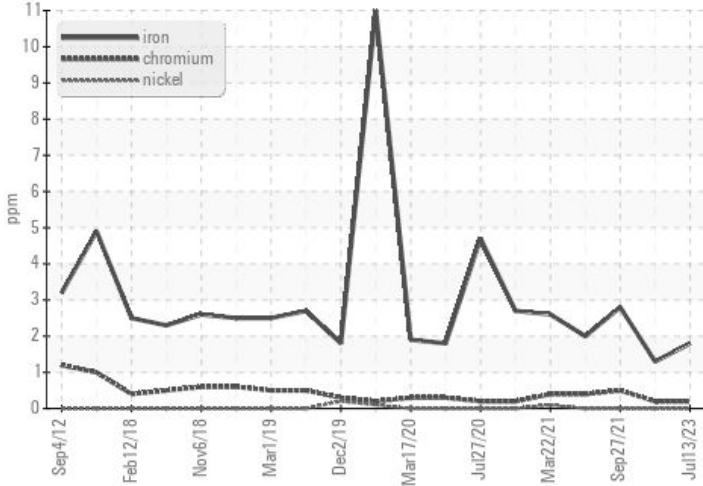


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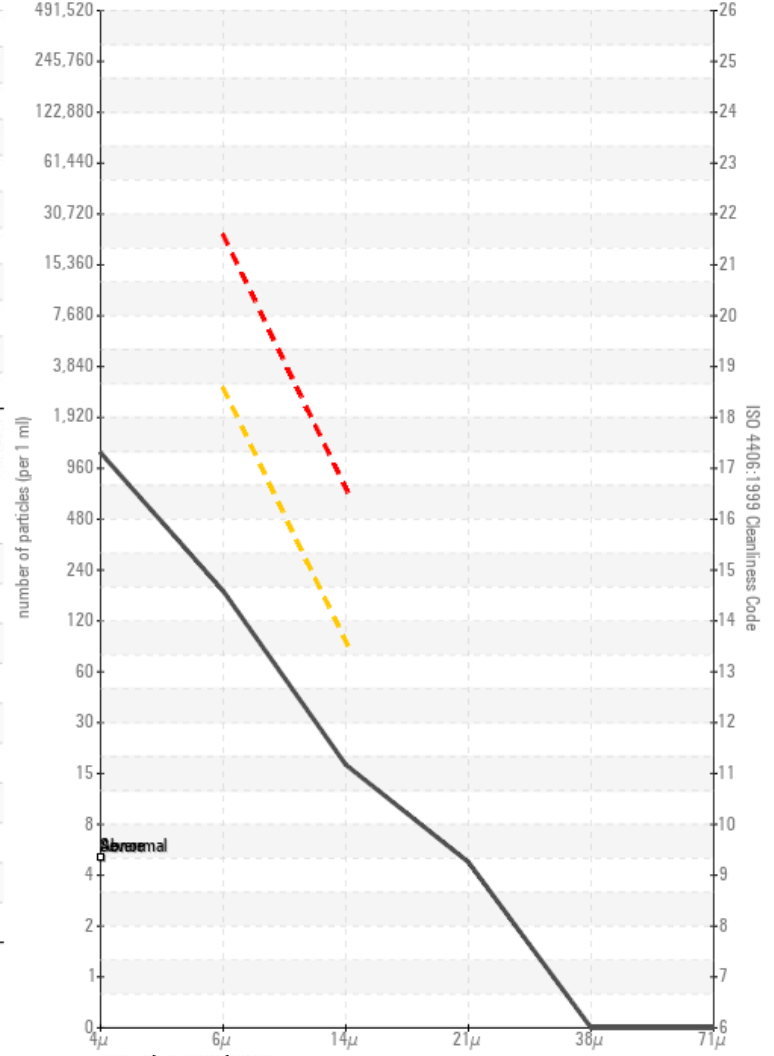


GRAPHS

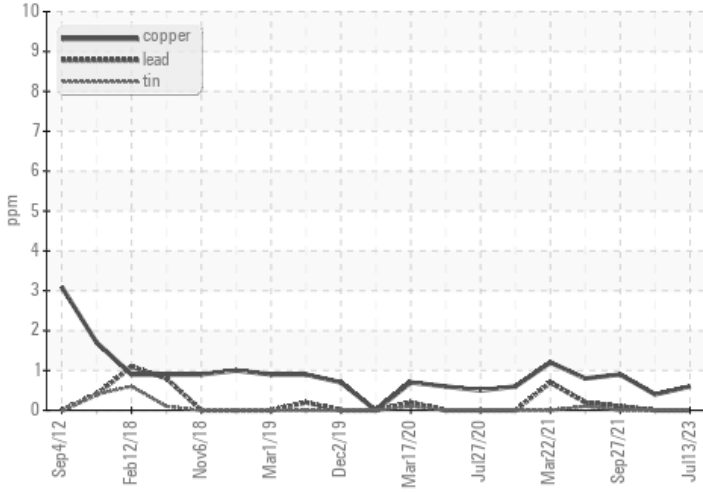
Ferrous Alloys



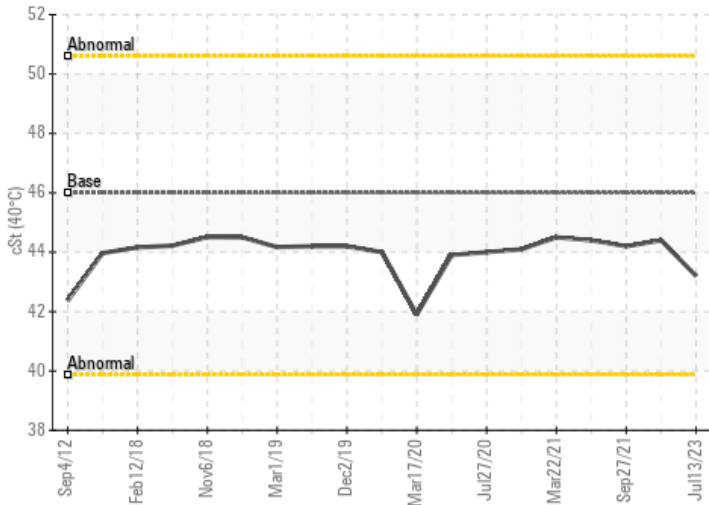
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

