



CONSTRUCTION EQUIPMENT

SWO-070859 VOLVO L220H 2940 - HYDRAULIC SYSTEM



Sample No: VCP444067
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-070859



SAMPLE INFORMATION

Sample Number	VCP444067	VCP428536	VCP415571	VCP345693
Sample Date	03 Apr 2024	05 Dec 2023	22 Aug 2023	27 Jan 2022
Machine Hours	8626	8123	7630	3597
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.6	42.3	41.6	40.0
Acid Number (AN)	mg KOH/g	0.40	0.38	0.33	0.39

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4419	2743	571	7371
Particles >6µm		283	352	109	480
Particles >14µm		16	21	8	56
ISO 4406:1999 (c)		19/15/11	19/16/12	16/14/10	20/16/13
Silicon	ppm	2	1	2	2
Sodium	ppm	2	3	3	0
Potassium	ppm	0	0	3	<1

Diagnosis
 Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry updates. 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	4	0	5	4
Copper	ppm	2	3	4	11
Lead	ppm	0	0	1	2
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	0	1	1
Chromium	ppm	<1	<1	1	2
Molybdenum	ppm	2	0	2	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0

ADDITIVES

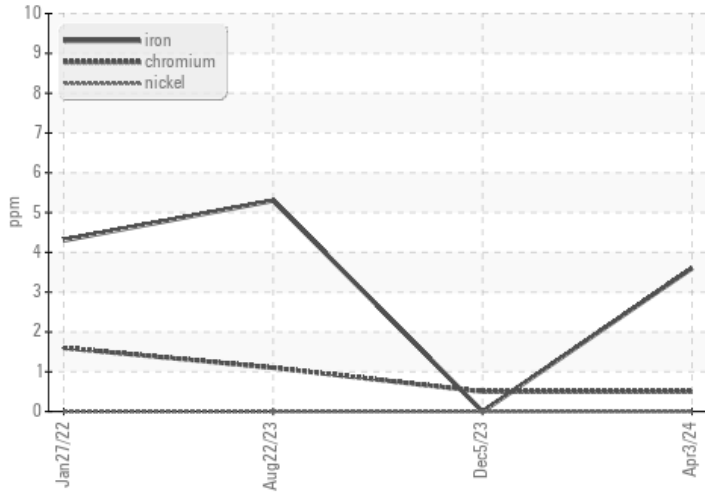
Calcium	ppm	87	77	94	63
Magnesium	ppm	47	8	20	2
Zinc	ppm	464	417	423	353
Phosphorus	ppm	375	326	337	281
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

Depot: SAIBIR
Unique No: 10967794
Signed: Doug Bogart
Report Date: 11 Apr 2024

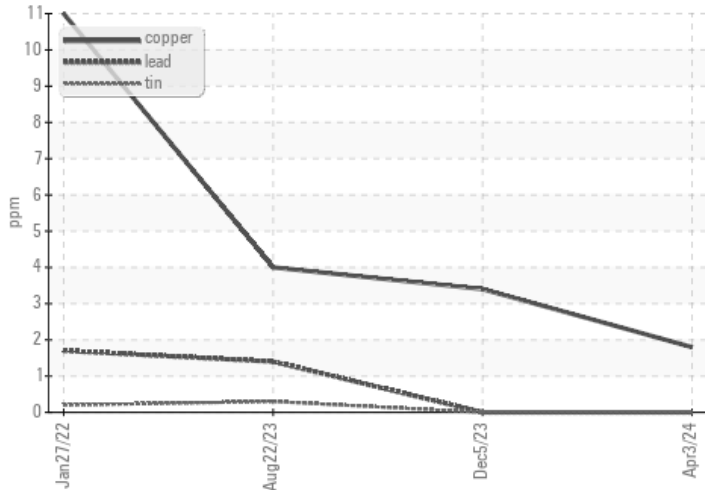


GRAPHS

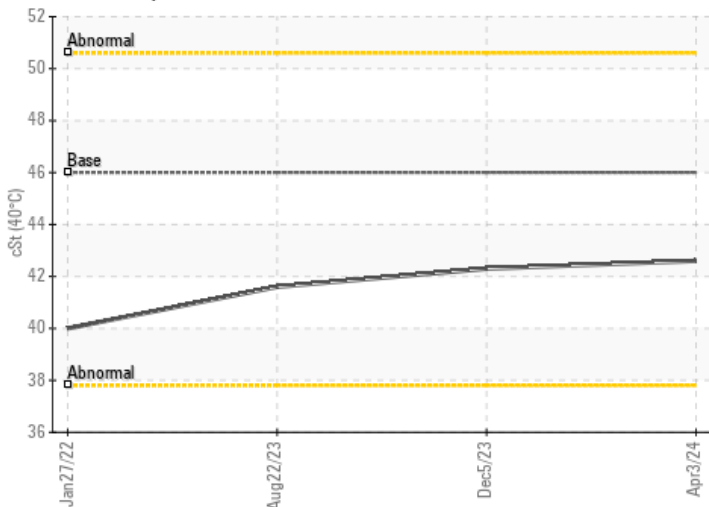
Ferrous Alloys



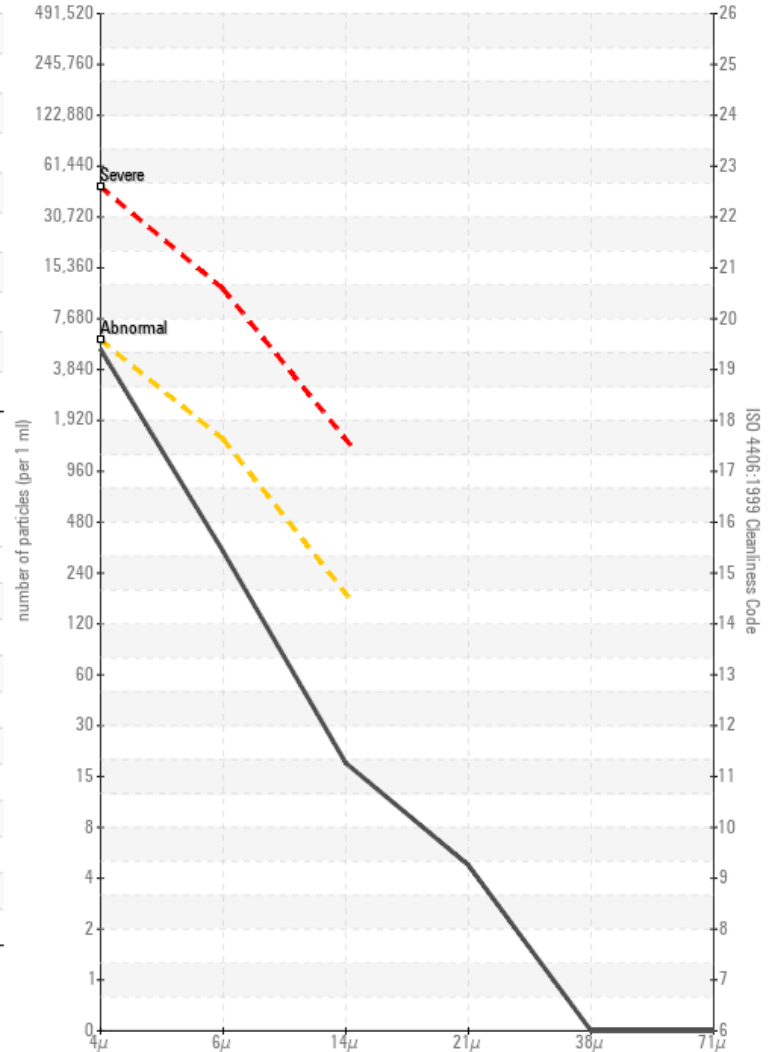
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

