



CONSTRUCTION EQUIPMENT

X11234 VOLVO L150H 6931 - HYDRAULIC SYSTEM



Sample No: VCP444825
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: X11234



SAMPLE INFORMATION

Sample Number	VCP444825	VCP444824	VCP402927	VCP402929
Sample Date	03 Apr 2024	08 Mar 2024	30 May 2023	27 Apr 2023
Machine Hours	0	7343	6618	5340
Oil Hours	7343	3239	0	0
Oil Changed	N/A	N/A	N/A	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	45.1	46.9	43.5	43.0
Acid Number (AN)	mg KOH/g	1.14	0.51	0.68	0.34



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 45719	▲ 10221	---	■ 2350
Particles >6µm		▲ 11289	■ 766	---	■ 311
Particles >14µm		▲ 549	■ 33	---	■ 15
ISO 4406:1999 (c)		23/21/16	21/17/12	---	18/15/11
Silicon	ppm	■ 2	■ <1	▲ 22	■ <1
Sodium	ppm	■ <1	■ 3	■ <1	■ 0
Potassium	ppm	■ 0	■ 0	■ 0	■ <1

Diagnosis

We recommend you service the filters on this component. 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. Additive levels indicate the addition of a different brand, or type of oil. The AN level is acceptable for this fluid.



WEAR METALS

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



ADDITIVES

Calcium	ppm	■ 1630	■ 97	■ 49	■ 48
Magnesium	ppm	■ 24	■ 11	■ <1	■ 4
Zinc	ppm	■ 677	■ 387	■ 412	■ 382
Phosphorus	ppm	■ 768	■ 313	■ 307	■ 305
Barium	ppm	■ 0	■ <1	■ 0	■ 0
Boron	ppm	■ 3	■ <1	■ 0	■ 0

Depot: VOLVO1034
Unique No: 10968492
Signed: Don Baldrige
Report Date: 12 Apr 2024

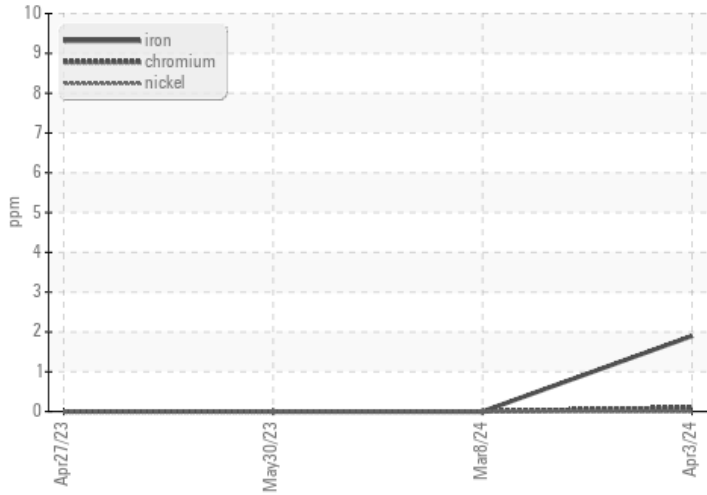


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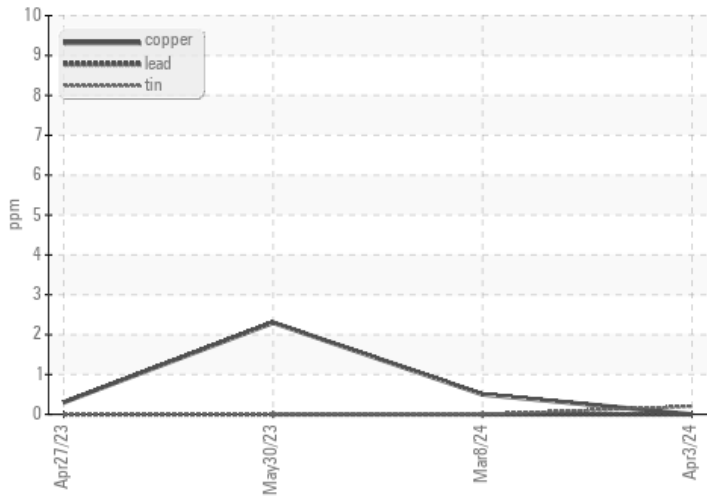


GRAPHS

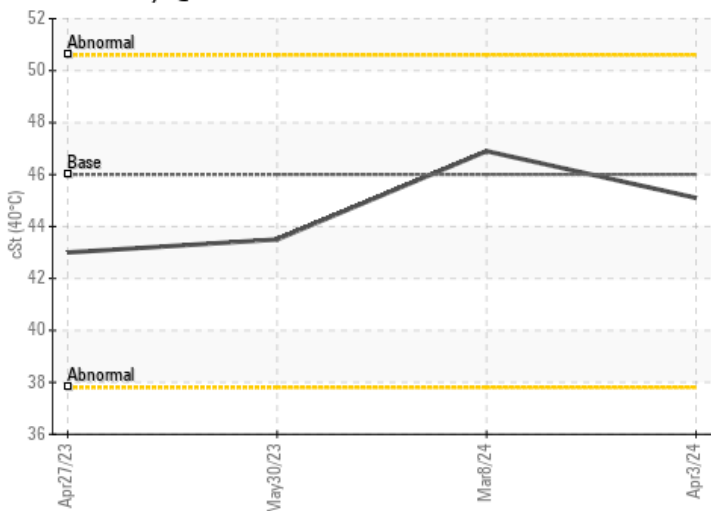
Ferrous Alloys



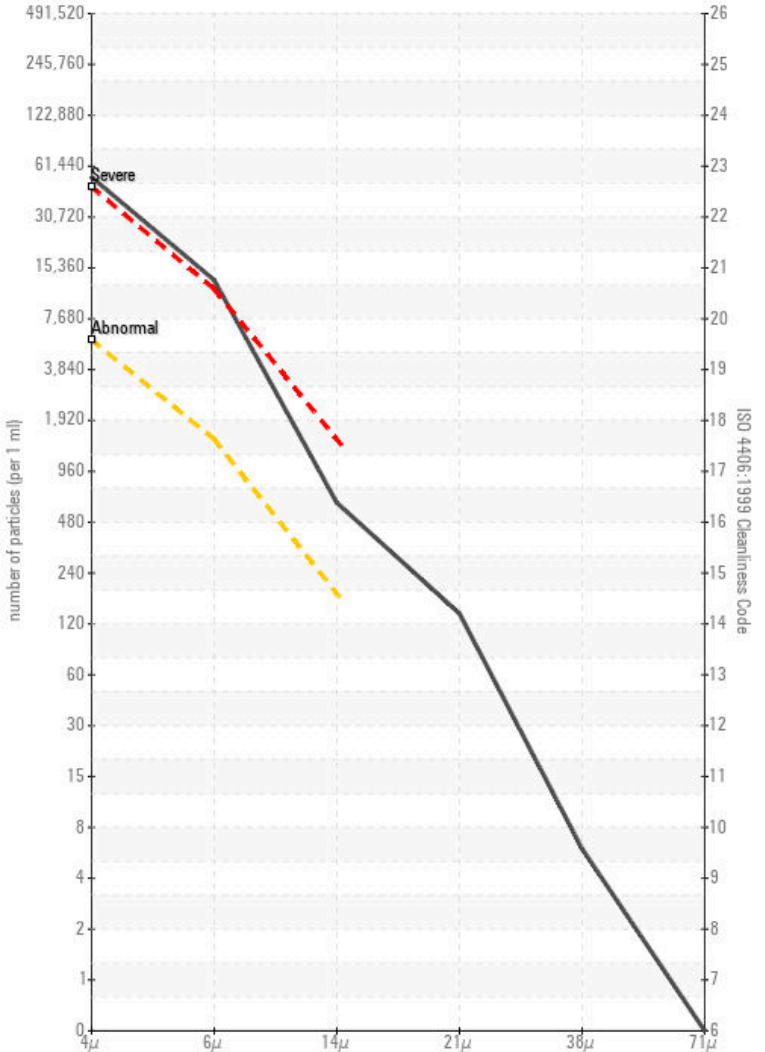
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

