



CONSTRUCTION EQUIPMENT

SPM686530 VOLVO L150H 7091 - HYDRAULIC SYSTEM



Sample No: VCP444822
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM686530



SAMPLE INFORMATION

Sample Number	VCP444822	VCP425440	VCP404058	VCP404520
Sample Date	15 Mar 2024	10 Nov 2023	26 Apr 2023	01 Apr 2023
Machine Hours	5645	4509	2615	2147
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ATTENTION	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	41.6	41.3	42.1	42.2
Acid Number (AN)	mg KOH/g	0.37	0.32	0.25	0.31



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 10815	● 9182	● 5121	■ 3632
Particles >6µm		● 2459	● 1978	● 1668	■ 822
Particles >14µm		■ 101	■ 109	■ 154	■ 46
ISO 4406:1999 (c)		21/18/14	20/18/14	20/18/14	19/17/13
Silicon	ppm	■ 3	■ 1	■ 2	■ 2
Sodium	ppm	■ 3	■ 3	■ <1	■ 0
Potassium	ppm	■ 1	■ 0	■ 0	■ <1

Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	■ 4	■ 2	■ 2	■ 3
Copper	ppm	■ 2	■ 2	■ 1	■ 2
Lead	ppm	■ 1	■ 0	■ 0	■ 1
Tin	ppm	■ <1	■ 0	■ 0	■ 0
Aluminum	ppm	■ <1	■ 0	■ <1	■ 0
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 0	■ 0	■ 0	■ 0
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ 0	■ <1	■ 0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	■ 65	■ 53	■ 60	■ 55
Magnesium	ppm	■ 1	■ 0	■ 0	■ <1
Zinc	ppm	■ 421	■ 342	■ 442	■ 429
Phosphorus	ppm	■ 330	■ 274	■ 356	■ 315
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 0	■ 0	■ 0	■ 0

Depot: VOLVO8885
Unique No: 10941178
Signed: Wes Davis
Report Date: 26 Mar 2024

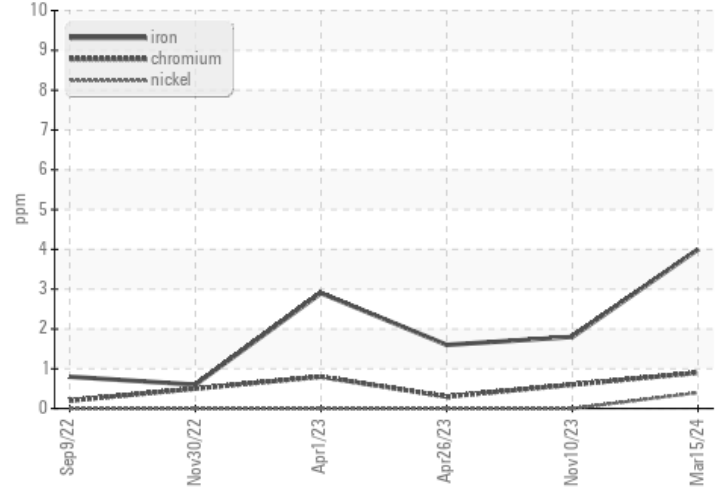


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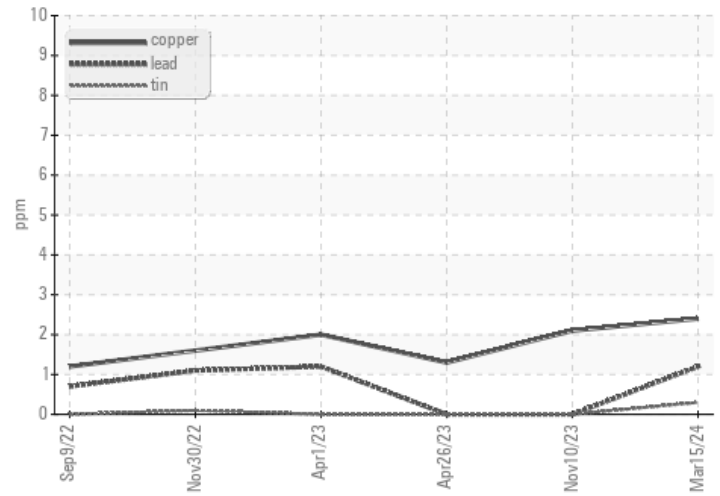


GRAPHS

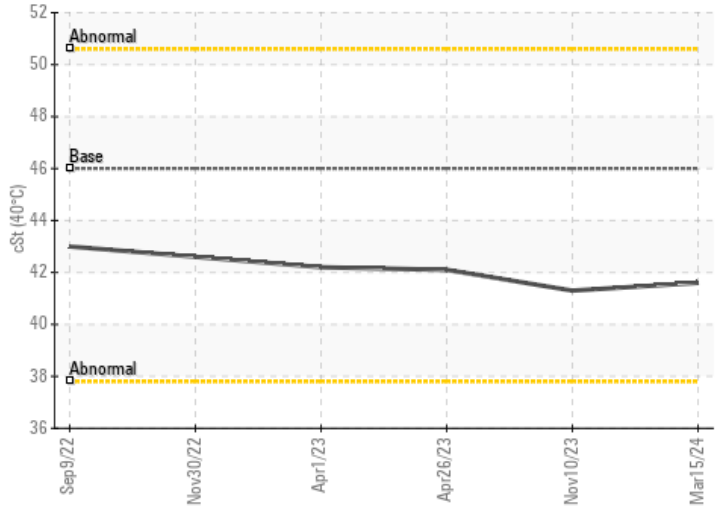
Ferrous Alloys



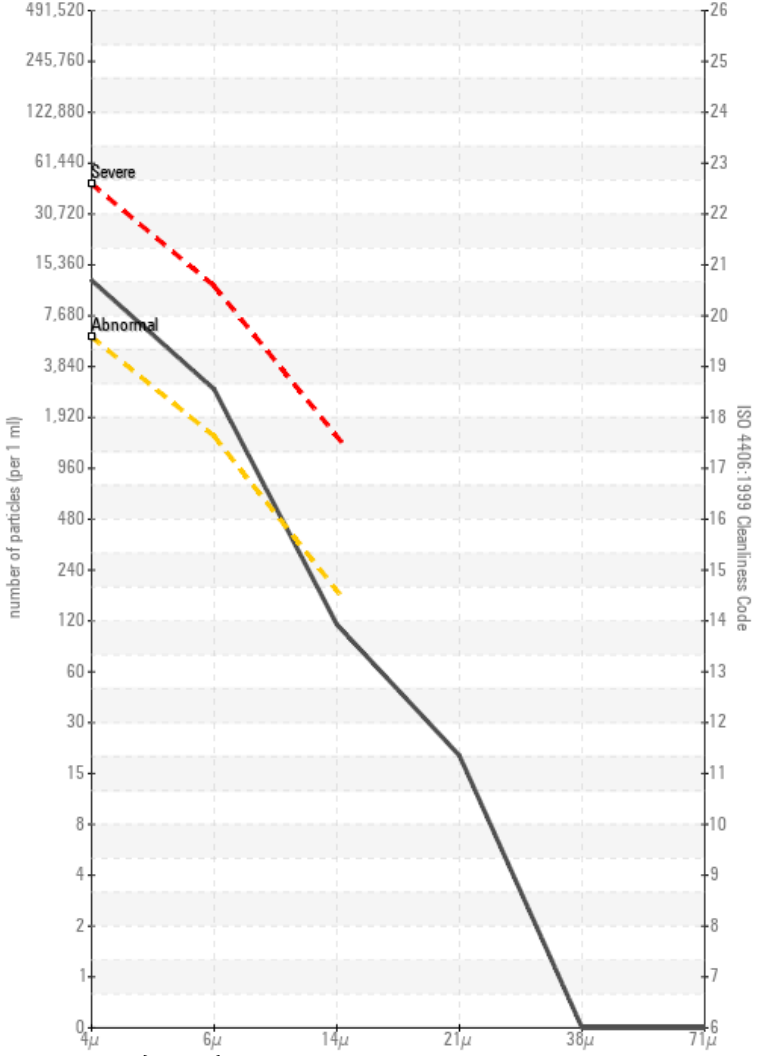
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

