



CONSTRUCTION EQUIPMENT

SPM702852 2284 VOLVO L70 2284 - HYDRAULIC SYSTEM



Sample No: VCP438870
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM702852



SAMPLE INFORMATION

Sample Number	VCP438870	VCP344809	VCP270850	DJJ04767681
Sample Date	01 May 2024	09 Oct 2021	27 Feb 2020	01 Aug 2019
Machine Hours	19728	17044	16041	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	N/A
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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 551 BENOIST FARMS ROAD
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OIL CONDITION

Visc @ 40°C	cSt	55.4	54.4	47.9	45.2
Acid Number (AN)	mg KOH/g	0.43	0.312	0.476	0.483



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 11148	▲ 13878	▲ 69725	▲ 38050
Particles >6µm		● 1811	● 1979	▲ 21680	▲ 9495
Particles >14µm		■ 100	■ 60	▲ 1666	▲ 819
ISO 4406:1999 (c)		21/18/14	21/18/13	23/22/18	22/20/17
Silicon	ppm	■ 3	■ 2	■ 15	■ 16
Sodium	ppm	■ 0	■ <1	■ 5	■ 5
Potassium	ppm	■ <1	■ 0	■ 1	■ 1

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	■ 5	■ 3	■ 14	■ 12
Copper	ppm	■ 2	■ 1	■ 3	■ 2
Lead	ppm	■ 1	■ <1	■ 1	■ <1
Tin	ppm	■ 0	■ <1	■ <1	■ <1
Aluminum	ppm	■ 2	■ <1	■ 2	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 1	■ <1	■ 2	2
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	■ <1	■ 0	■ <1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 69	■ 56	■ 134	122
Magnesium	ppm	■ 5	■ 2	■ 10	10
Zinc	ppm	■ 486	■ 403	■ 452	352
Phosphorus	ppm	■ 436	■ 332	■ 340	282
Barium	ppm	■ 0	■ 0	■ 0	0
Boron	ppm	■ 0	■ 2	■ 2	2

Depot: UPUWES
Unique No: 11017154
Signed: Don Baldrige
Report Date: 08 May 2024

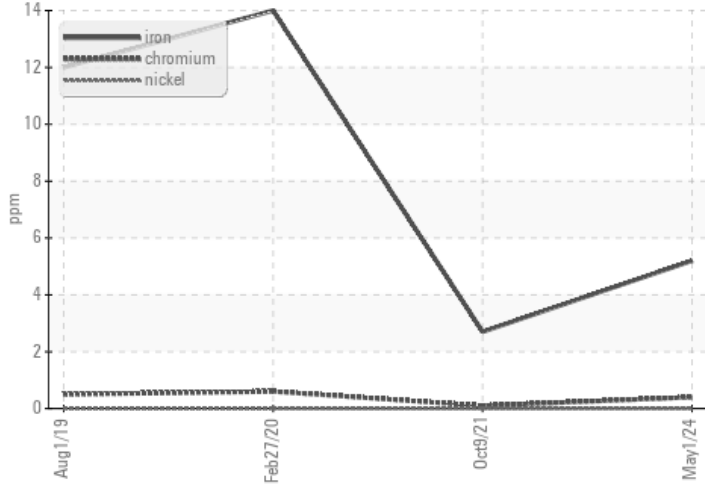


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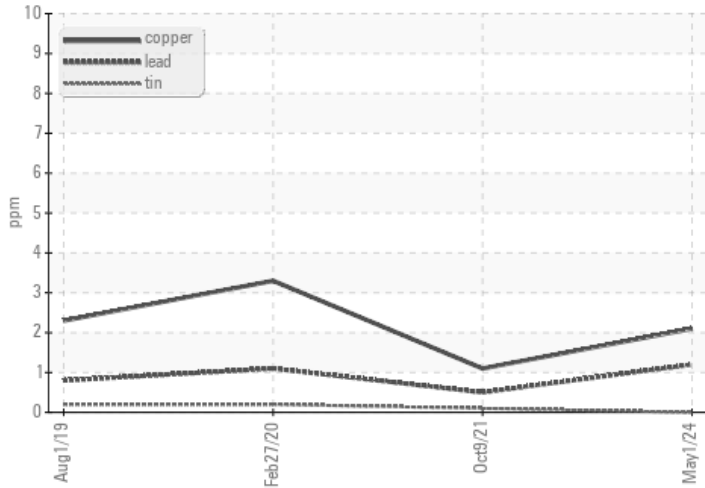


GRAPHS

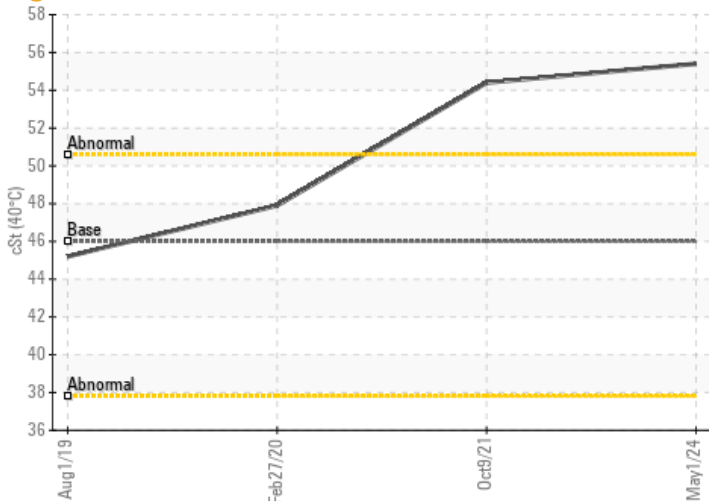
Ferrous Alloys



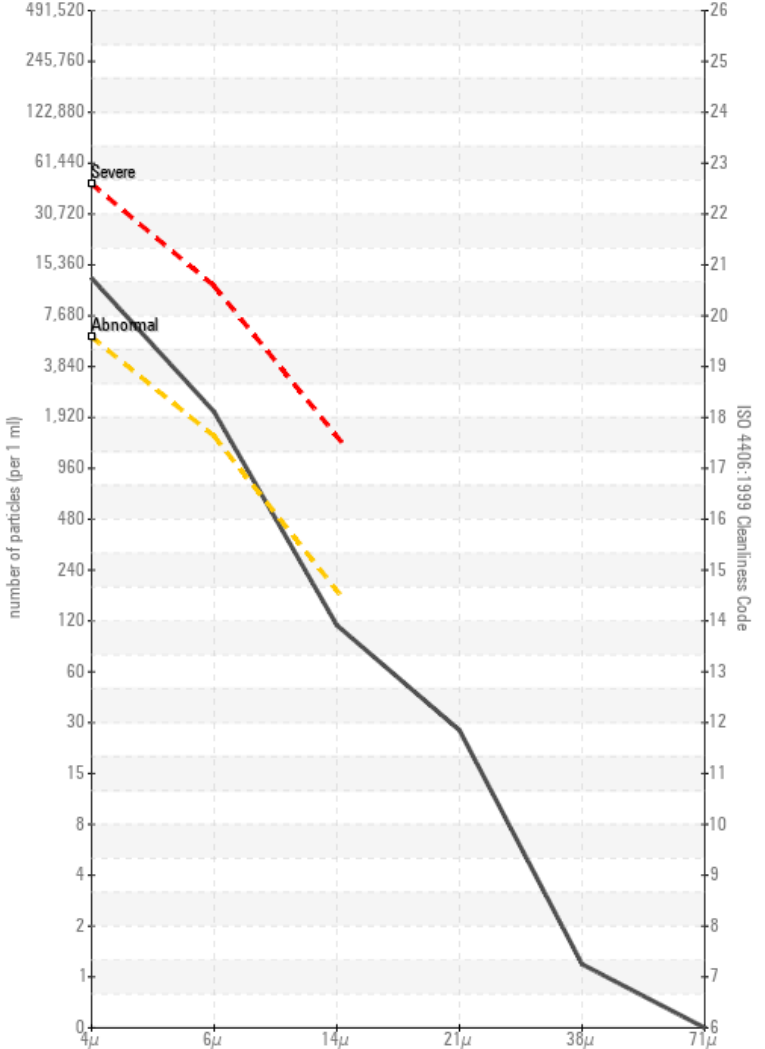
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

