



CONSTRUCTION EQUIPMENT

645703 364142 VOLVO L90G 3781 - HYDRAULIC SYSTEM



Sample No: VCP431584
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 645703



SAMPLE INFORMATION

Sample Number	VCP431584	VCP425706	VCP364020	VCP342283
Sample Date	08 Dec 2023	09 May 2023	11 Oct 2022	09 Feb 2022
Machine Hours	10906	10350	9569	8661
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

TRADEMARK METALS RECYCLING - DAYTONA-HOLLY HILL
 402 3RD ST
 HOLLY HILL, FL
 US 32117
 Contact: RYAN BOWDEN



OIL CONDITION

Visc @ 40°C	cSt	▲ 60.3	▲ 54.8	▲ 53.02	■ 45.7
Acid Number (AN)	mg KOH/g	■ 0.42	■ 0.34	■ 0.35	■ 0.385

T: (386)255-1453
 F: (386)254-2874



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 20793	■ 4007	5427	77135
Particles >6µm		▲ 3516	■ 739	■ 854	▲ 23088
Particles >14µm		■ 104	■ 23	■ 25	▲ 1466
ISO 4406:1999 (c)		22/19/14	19/17/12	20/17/12	23/22/18
Silicon	ppm	■ <1	■ 2	■ 4	■ 9
Sodium	ppm	■ 2	■ 0	■ 2	■ 2
Potassium	ppm	■ 2	■ 0	■ 0	■ 2

Diagnosis

No corrective action is recommended at this time. The 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	■ 0	■ <1	■ 3	■ 9
Copper	ppm	■ 0	■ 0	■ 1	■ 2
Lead	ppm	■ 0	■ 0	■ 0	■ 1
Tin	ppm	■ <1	■ 0	■ <1	■ 0
Aluminum	ppm	■ 0	■ 3	■ <1	■ 0
Chromium	ppm	■ 0	■ 0	■ <1	■ 1
Molybdenum	ppm	■ <1	■ 2	■ 4	■ 5
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	■ 56	■ 68	■ 98	■ 177
Magnesium	ppm	■ 14	■ 5	■ 18	■ 20
Zinc	ppm	■ 483	■ 427	■ 442	■ 537
Phosphorus	ppm	■ 366	■ 343	■ 342	■ 428
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 1	■ 1	■ <1	■ 6

Depot: TRADAY
Unique No: 10791214
Signed: Don Baldrige
Report Date: 19 Dec 2023

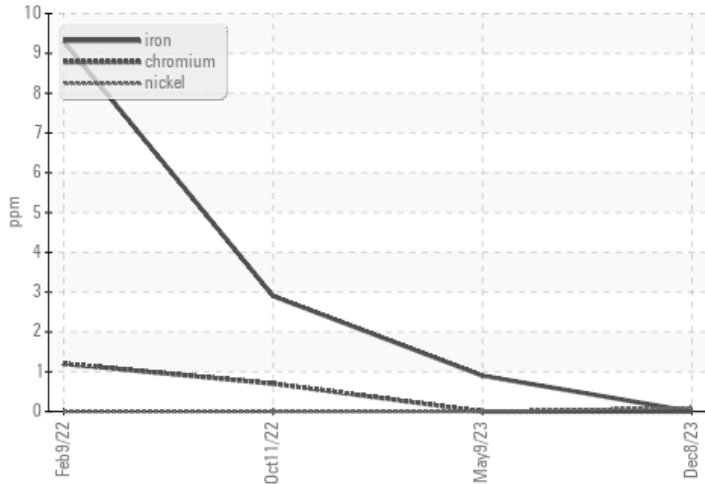


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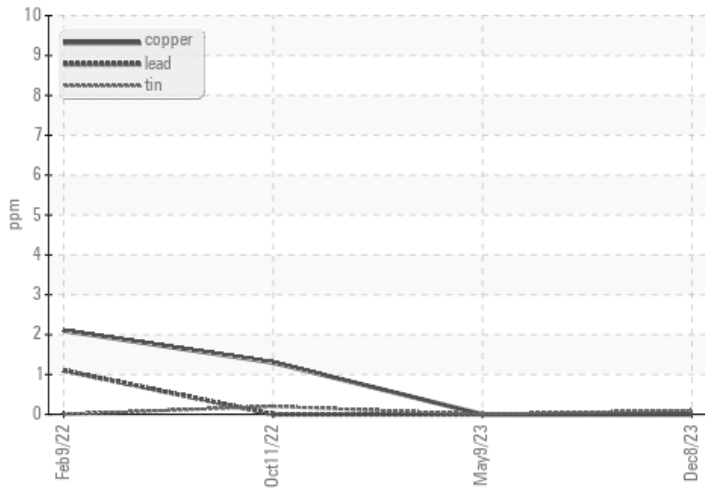


GRAPHS

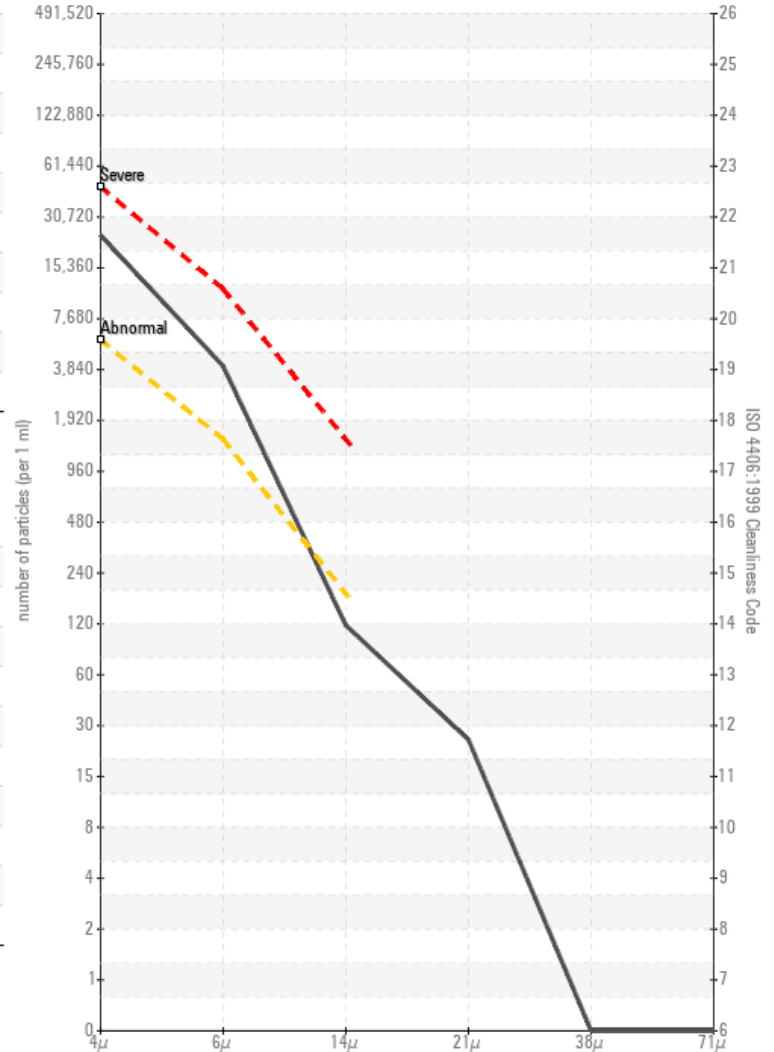
Ferrous Alloys



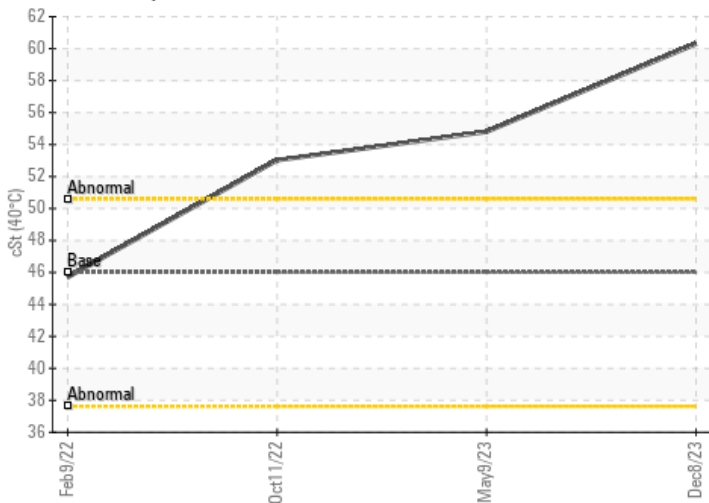
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number

