



CONSTRUCTION EQUIPMENT

SPM620695 VOLVO L150G 23527 - HYDRAULIC SYSTEM



Sample No: VCP425302
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM620695



SAMPLE INFORMATION

Sample Number	VCP425302	VCP366843	VCP325821	VCP307272
Sample Date	12 Oct 2023	02 Aug 2022	07 Feb 2022	10 May 2021
Machine Hours	23813	21794	20750	19128
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	ATTENTION	NORMAL	ABNORMAL

SIMS METAL MANAGEMENT

2500 S. PAULINA
 CHICAGO, IL
 US 60608
 Contact: RYAN WISE
 ryan.wise@simsmm.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	44.4	43.1	45.0	39.8
Acid Number (AN)	mg KOH/g	0.35	0.40	0.406	0.735



CONTAMINATION

Particles >4µm		15211	43650	2304	87557
Particles >6µm		▲ 3924	▲ 3057	■ 348	▲ 5506
Particles >14µm		▲ 236	▲ 95	■ 34	■ 19
ISO 4406:1999 (c)		21/19/15	23/19/14	18/16/12	24/20/11
Silicon	ppm	■ <1	■ 1	■ 1	■ 5
Sodium	ppm	■ 0	■ <1	■ <1	■ 3
Potassium	ppm	■ 0	■ 0	■ <1	■ 2



WEAR METALS

Iron	ppm	■ 0	■ 4	■ 3	■ 22
Copper	ppm	■ 0	■ <1	■ 1	▲ 205
Lead	ppm	■ 0	■ <1	■ 1	■ 2
Tin	ppm	■ 0	■ <1	■ <1	■ <1
Aluminum	ppm	■ 0	■ <1	■ 0	■ 1
Chromium	ppm	■ 1	■ 2	■ 1	■ 3
Molybdenum	ppm	■ 0	■ <1	■ 1	■ <1
Nickel	ppm	■ <1	■ 0	■ 0	■ <1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	■ <1	■ 0	■ 0	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 109	■ 203	■ 89	1326
Magnesium	ppm	■ 15	■ 7	■ 20	■ 18
Zinc	ppm	■ 485	■ 497	■ 613	■ 758
Phosphorus	ppm	■ 368	■ 385	■ 498	■ 659
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 0	■ 8	■ <1	■ 22

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 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.

Depot: SIMCHIL
Unique No: 10712949
Signed: Wes Davis
Report Date: 27 Oct 2023

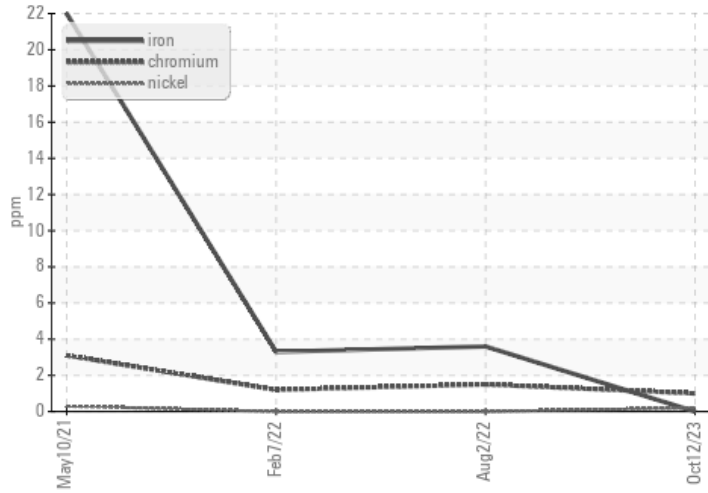


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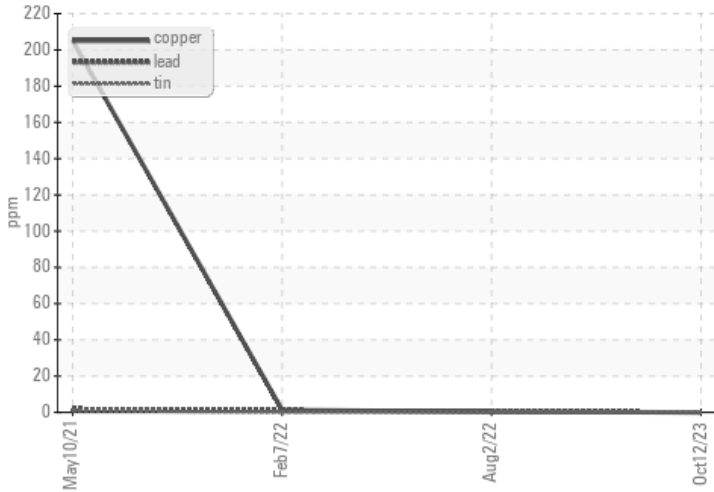


GRAPHS

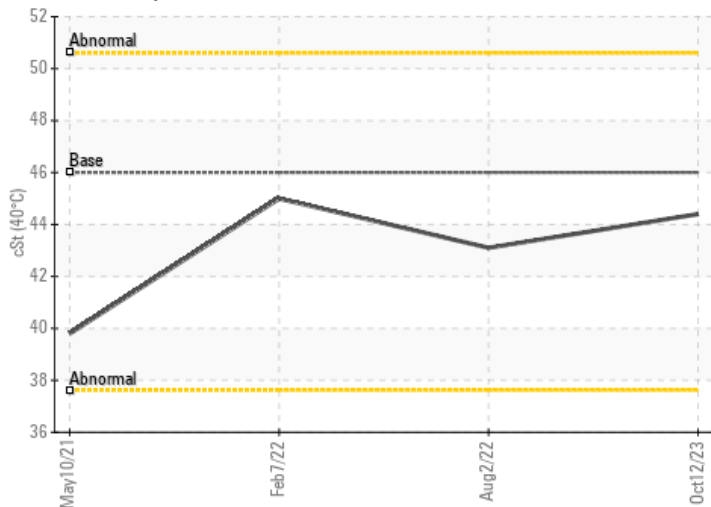
Ferrous Alloys



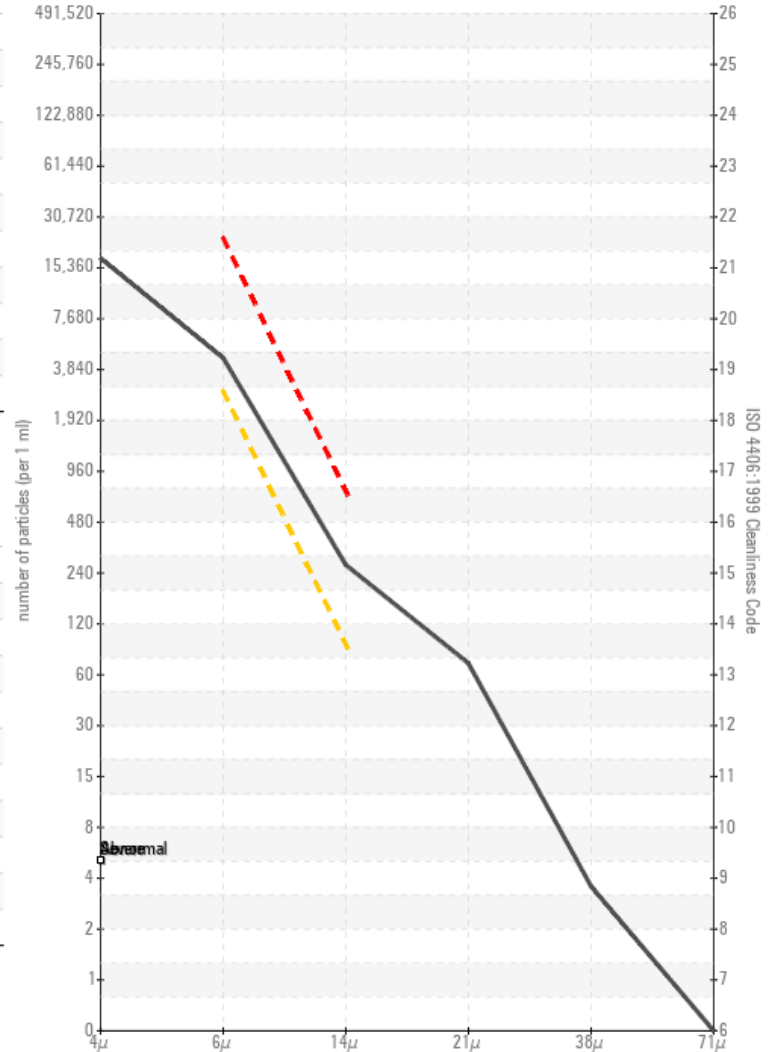
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

