



CONSTRUCTION EQUIPMENT

SWA266523 VOLVO L180H 5317 - HYDRAULIC SYSTEM



Sample No: VCP425193
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWA266523



SAMPLE INFORMATION

Sample Number	VCP425193	VCP401415	VCP400785	VCP368736
Sample Date	22 May 2023	08 Mar 2023	23 Jan 2023	16 Dec 2022
Machine Hours	7647	7096	6801	6548
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	N/A	Not Changd
Sample Status	ATTENTION	ABNORMAL	ATTENTION	ABNORMAL

ALTA EQUIPMENT

5985 COURT STREET ROAD
 SYRACUSE, NY
 US 13206
 Contact: JIM STRIGLE
 JIM.STRIGLE@ALTG.COM
 T: (315)437-2611
 F: (315)434-9471



OIL CONDITION

Visc @ 40°C	cSt	40.8	40.7	40.8	40.5
Acid Number (AN)	mg KOH/g	0.35	0.40	0.35	0.42



CONTAMINATION

Particles >4µm		▲ 6619	▲ 23463	▲ 6037	▲ 24990
Particles >6µm		■ 1034	▲ 4907	■ 943	▲ 5973
Particles >14µm		■ 41	■ 156	■ 65	▲ 348
ISO 4406:1999 (c)		20/17/13	22/19/14	20/17/13	22/20/16
Silicon	ppm	■ 2	■ 3	■ 2	■ 2
Sodium	ppm	■ 3	■ 0	■ 0	■ 4
Potassium	ppm	■ 2	■ 4	■ 3	■ 2

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 light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	■ 92	■ 102	■ 98	■ 95
Magnesium	ppm	■ 7	■ 8	■ 7	■ 4
Zinc	ppm	■ 448	■ 438	■ 449	■ 439
Phosphorus	ppm	■ 342	■ 329	■ 347	■ 362
Barium	ppm	■ 0	■ 0	■ 1	■ 0
Boron	ppm	■ 2	■ 3	■ 2	■ 2

Depot: VOLV00142
Unique No: 10485985
Signed: Wes Davis
Report Date: 26 May 2023

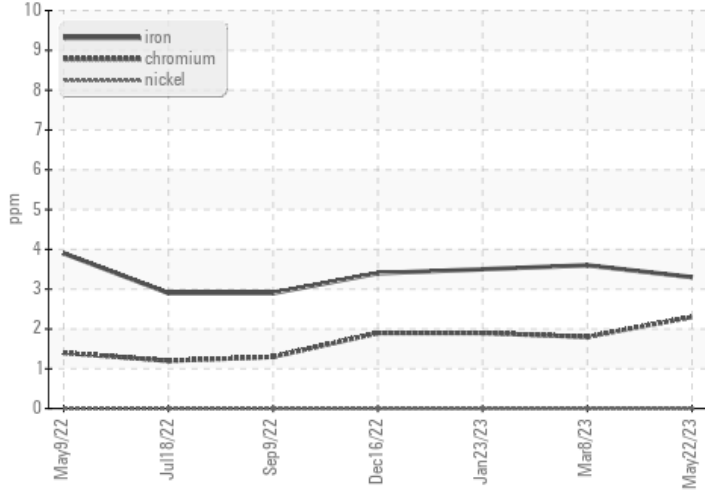


CONSTRUCTION EQUIPMENT

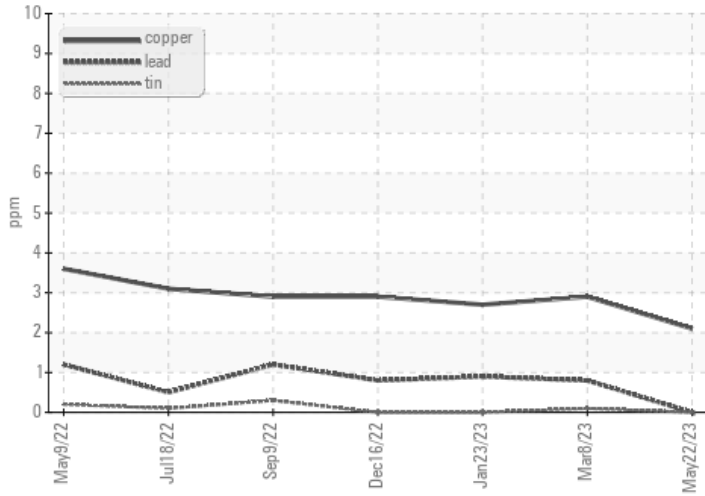


VOLVO GRAPHS

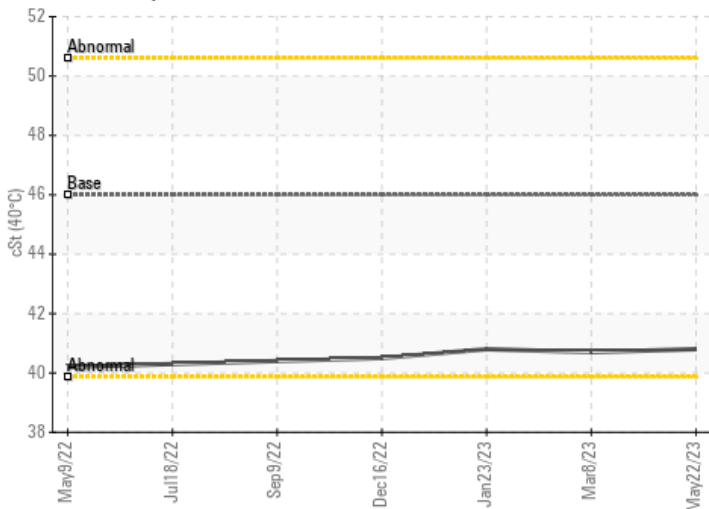
Ferrous Alloys



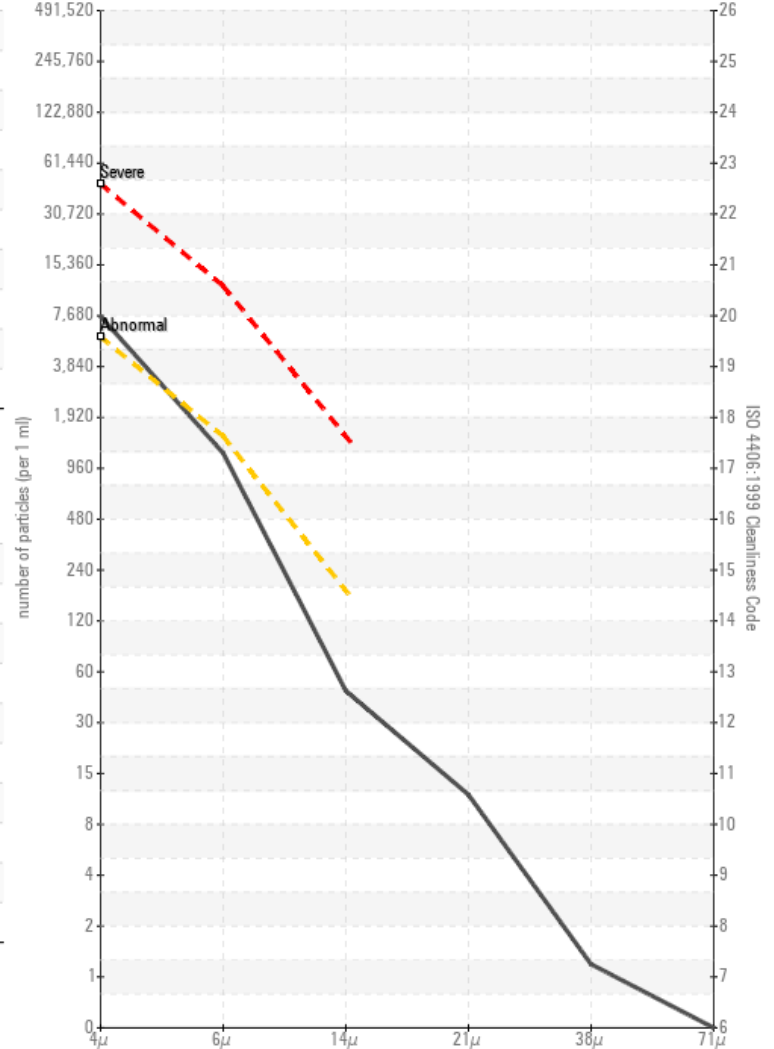
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

