



# CONSTRUCTION EQUIPMENT

## VOLVO L180H 5290 - HYDRAULIC SYSTEM



**Sample No:** VCP307515

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP307515	VCP362809	VCP402900	VCP343276
Sample Date	29 Jan 2024	18 Oct 2023	12 Jul 2023	19 Jun 2023
Machine Hours	6771	6268	5615	5464
Oil Hours	503	1922	1268	1117
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ABNORMAL	SEVERE	ABNORMAL	SEVERE

**SCHILDBERG CONSTRUCTION COMPANY**

PO BOX 358  
GREENFIELD, IA  
US 50849

Contact: SCOTT ARMSTRONG  
sarmstrong@schildberg.com

T: (641)743-8237

F: (641)743-2486



### OIL CONDITION

Visc @ 40°C	cSt	39.2	39.2	43.6	39.3
Acid Number (AN)	mg KOH/g	0.45	0.46	0.59	0.64



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 22918	● 53636	▲ 16358	● 47340
Particles >6µm		▲ 3365	● 15082	▲ 4095	● 16002
Particles >14µm		■ 64	▲ 405	■ 133	● 1540
ISO 4406:1999 (c)		22/19/13	23/21/16	21/19/14	23/21/18
Silicon	ppm	■ 11	■ 11	■ 10	■ 10
Sodium	ppm	■ 7	■ 4	■ 3	■ 3
Potassium	ppm	■ 0	■ <1	■ <1	■ 1

### 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	■ 2	■ 3	■ 3	■ 3
Copper	ppm	■ 6	■ 4	■ 3	■ 3
Lead	ppm	■ 1	■ <1	■ 0	■ <1
Tin	ppm	■ 0	■ <1	■ 0	■ <1
Aluminum	ppm	■ 2	■ 2	■ 2	■ 2
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 1	■ <1	■ 2	■ 2
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	0



### ADDITIVES

Calcium	ppm	■ 1870	■ 2010	■ 2153	■ 2207
Magnesium	ppm	■ 9	17	19	17
Zinc	ppm	■ 711	■ 817	■ 857	■ 897
Phosphorus	ppm	■ 632	■ 658	■ 678	■ 716
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 0	■ <1	■ 0	■ 0

**Depot:** SCHGRE

**Unique No:** 10898307

**Signed:** Don Baldrige

**Report Date:** 27 Feb 2024

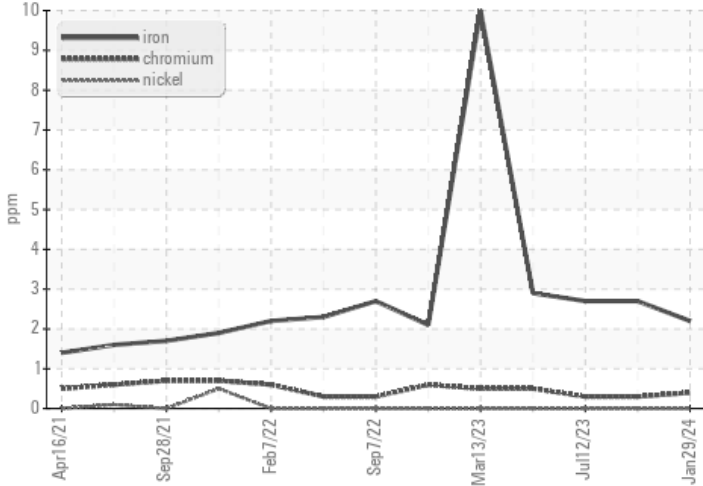


# CONSTRUCTION EQUIPMENT

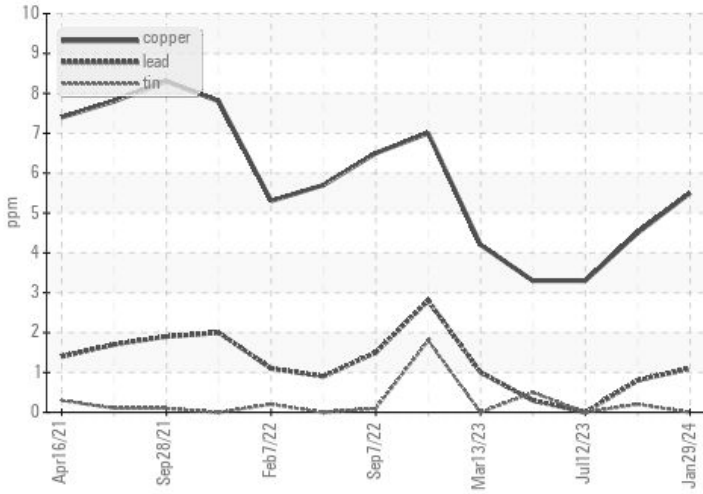


## GRAPHS

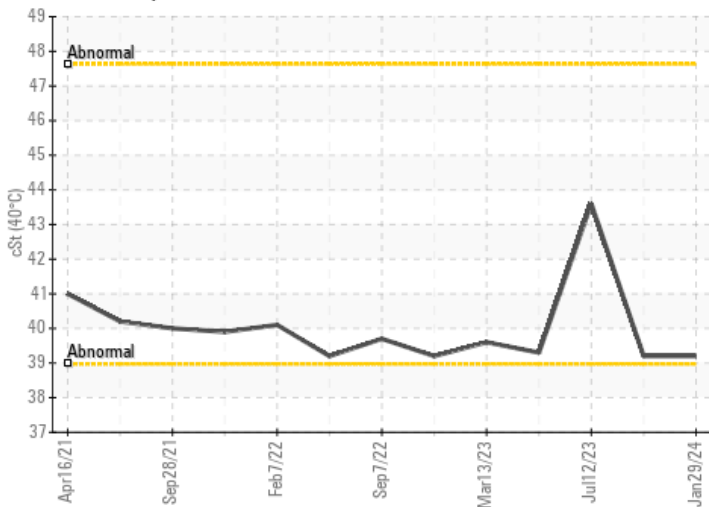
### Ferrous Alloys



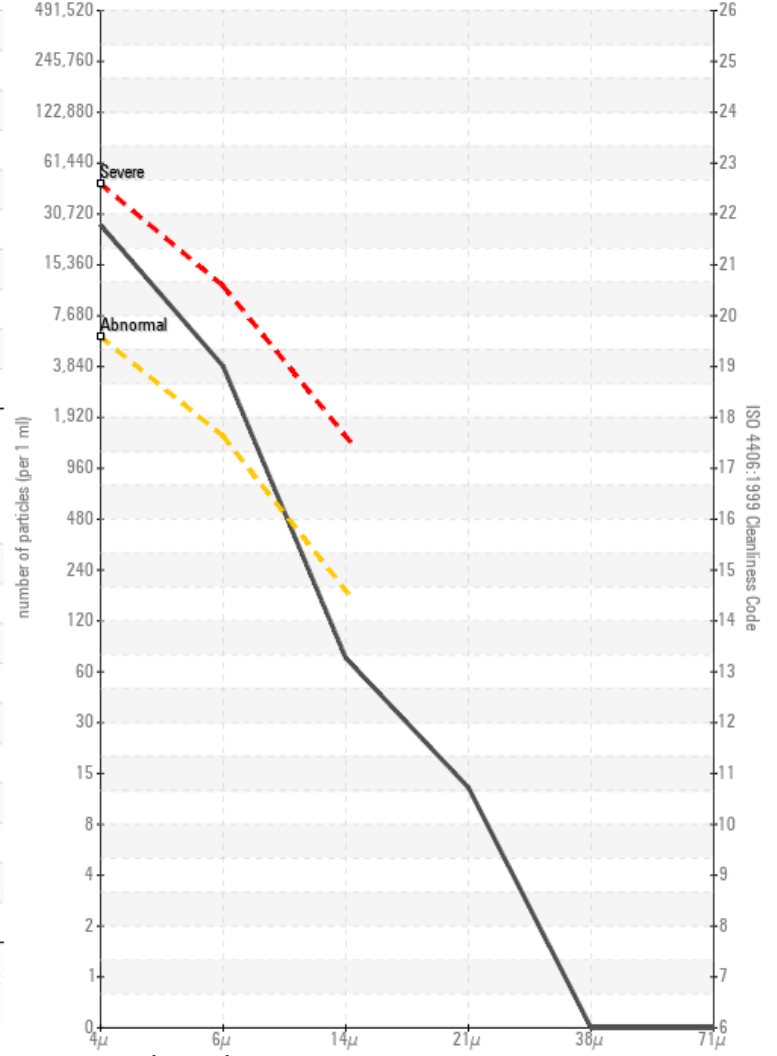
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

