



CONSTRUCTION EQUIPMENT

VOLVO L180H 5290 - HYDRAULIC SYSTEM



Sample No: VCP402900

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP402900	VCP343276	VCP377264	VCP377136
Sample Date	12 Jul 2023	19 Jun 2023	13 Mar 2023	21 Nov 2022
Machine Hours	5615	5464	4934	4347
Oil Hours	1268	1117	587	2137
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	SEVERE	ABNORMAL	ABNORMAL

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	43.6	39.3	39.6	39.2
Acid Number (AN)	mg KOH/g	0.59	0.64	0.65	0.38



CONTAMINATION

Particles >4µm	16358	47340	34474	54510	
Particles >6µm	4095	16002	8160	18261	
Particles >14µm	133	1540	335	713	
ISO 4406:1999 (c)	21/19/14	23/21/18	22/20/16	23/21/17	
Silicon	ppm	10	10	11	8
Sodium	ppm	3	3	<1	5
Potassium	ppm	<1	1	1	0

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 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.



WEAR METALS

Iron	ppm	3	3	10	2
Copper	ppm	3	3	4	7
Lead	ppm	0	<1	1	3
Tin	ppm	0	<1	0	2
Aluminum	ppm	2	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	2	4	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2153	2207	2034	1376
Magnesium	ppm	19	17	15	13
Zinc	ppm	857	897	815	764
Phosphorus	ppm	678	716	657	599
Barium	ppm	0	0	0	0
Boron	ppm	0	0	5	<1

Depot: SCHGRE
Unique No: 10586385
Signed: Wes Davis
Report Date: 04 Aug 2023

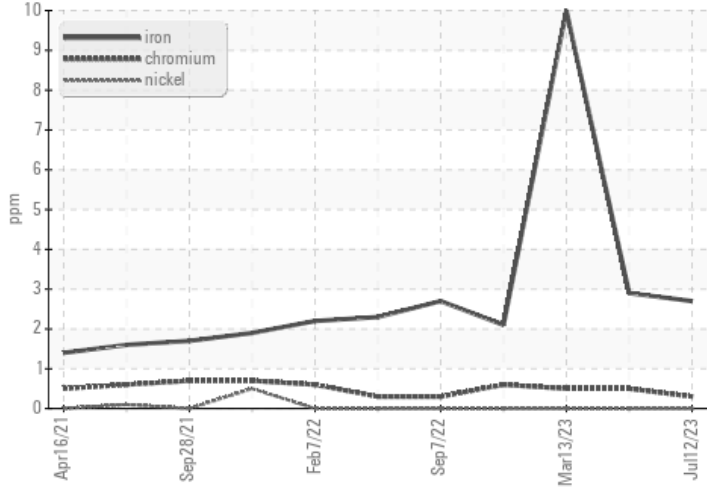


CONSTRUCTION EQUIPMENT

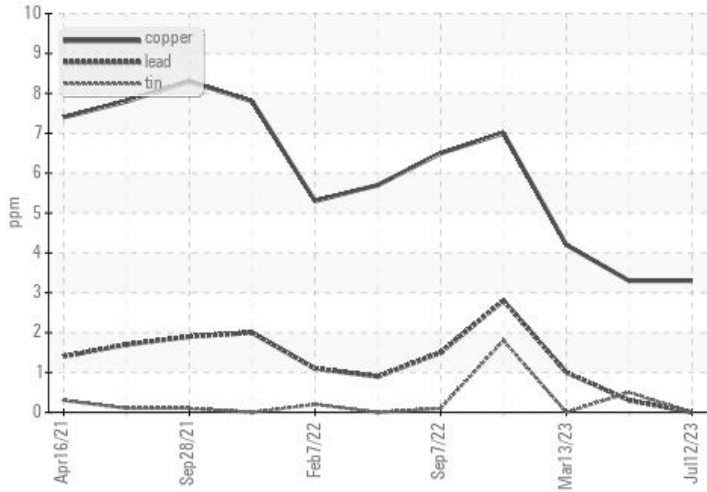


VOLVO GRAPHS

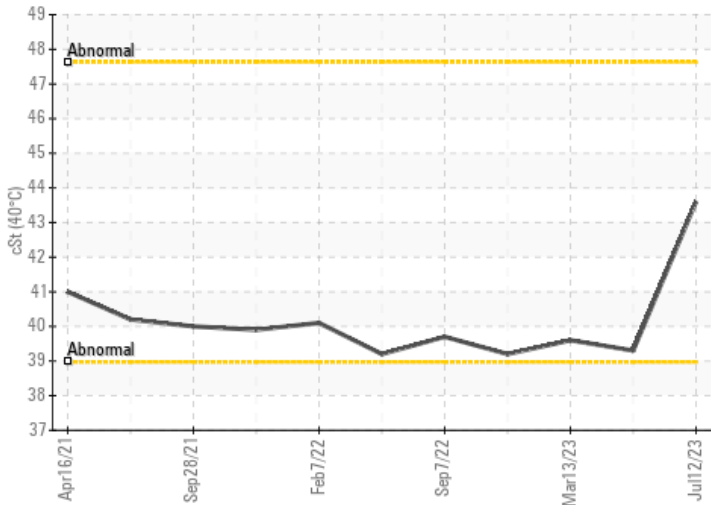
Ferrous Alloys



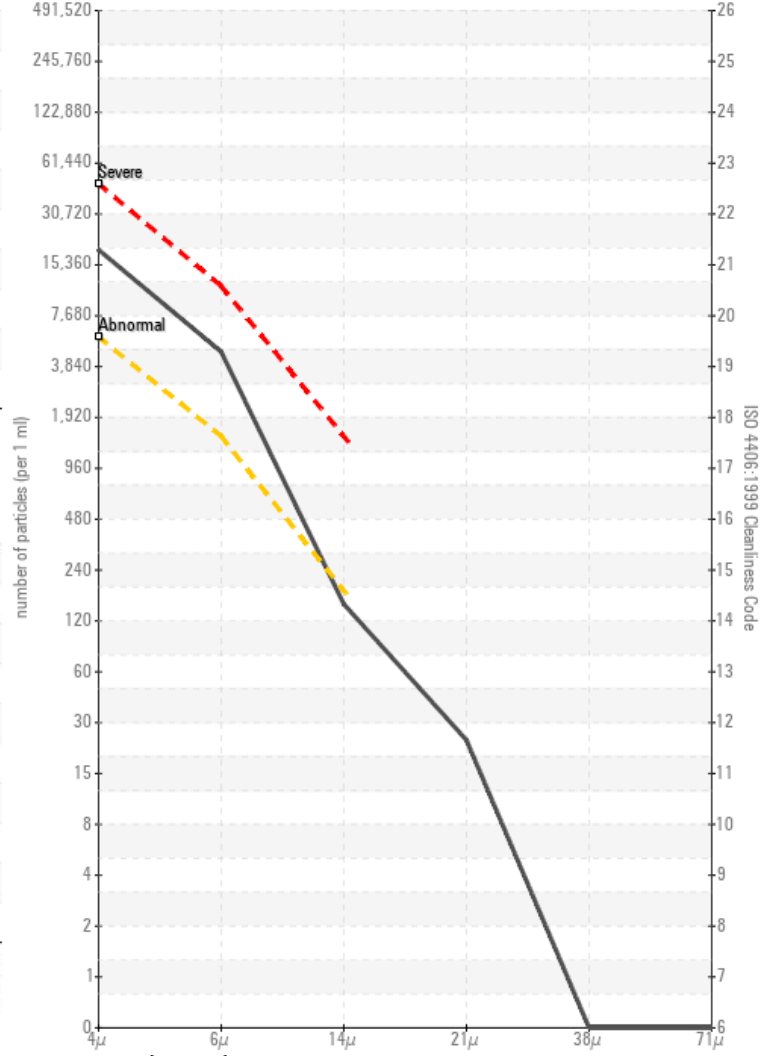
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

