



CONSTRUCTION EQUIPMENT

W14567 HOUSBY VOLVO L220H 2820 - HYDRAULIC SYSTEM



Sample No: VCP510539
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: W14567 HOUSBY



SAMPLE INFORMATION

Sample Number	VCP510539	VCP426831	VCP382404	VCP374221
Sample Date	15 Aug 2023	31 May 2023	07 Dec 2022	15 Sep 2022
Machine Hours	9046	8553	8016	7495
Oil Hours	1000	500	4000	500
Oil Changed	Not Changd	Not Changd	Changed	Not Changd
Sample Status	ATTENTION	ATTENTION	ABNORMAL	ABNORMAL

HOUSBY HEAVY EQUIPMENT, LLC
 4410 SE 4 MILE DR
 ANKENY, IA
 US 50021
 Contact: RANDY VANDERLEEST
 rvanderleest@housby.com
 T:
 F: (515)964-2865

OIL CONDITION

Visc @ 40°C	cSt	42.0	42.5	40.1	40.4
Acid Number (AN)	mg KOH/g	0.32	0.30	0.35	0.41

CONTAMINATION

Particles >4µm	2939	8748	31562	9711	
Particles >6µm	1078	2485	11398	2757	
Particles >14µm	195	118	987	177	
ISO 4406:1999 (c)	19/17/15	20/18/14	22/21/17	20/19/15	
Silicon	ppm	4	2	4	4
Sodium	ppm	2	<1	0	<1
Potassium	ppm	<1	0	1	0

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	6	5	10	8
Copper	ppm	1	0	2	2
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	<1	<1
Chromium	ppm	2	1	2	2
Molybdenum	ppm	2	2	3	3
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	124	133	226	188
Magnesium	ppm	7	9	11	11
Zinc	ppm	484	487	489	475
Phosphorus	ppm	361	374	368	376
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	6	6

Depot: VOLVO0080
Unique No: 10615556
Signed: Wes Davis
Report Date: 22 Aug 2023

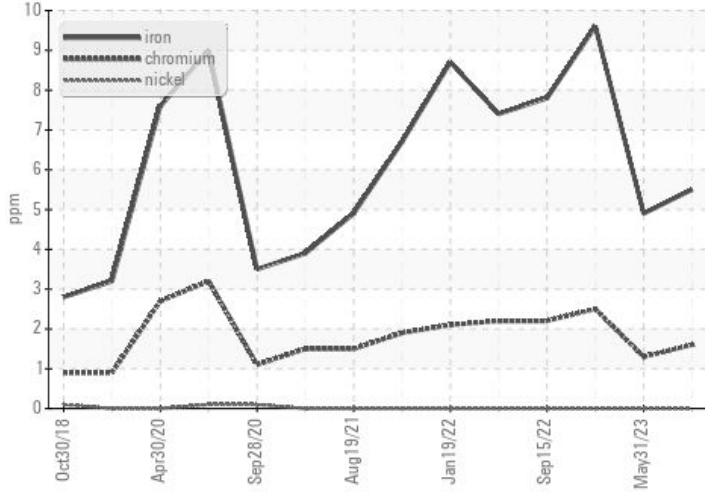


CONSTRUCTION EQUIPMENT

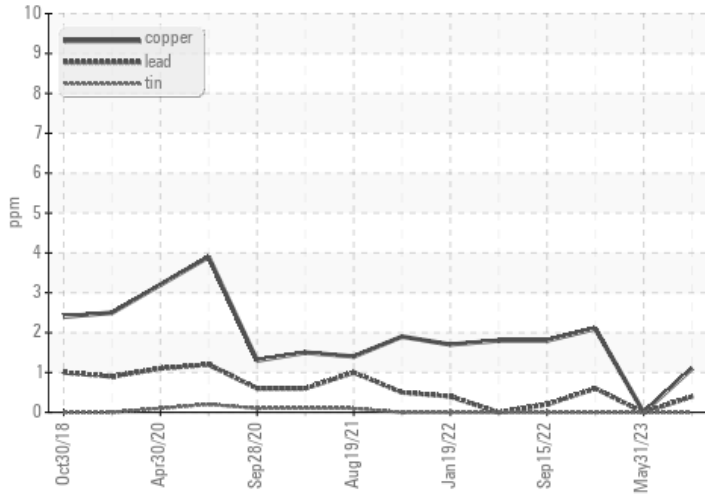


VOLVO GRAPHS

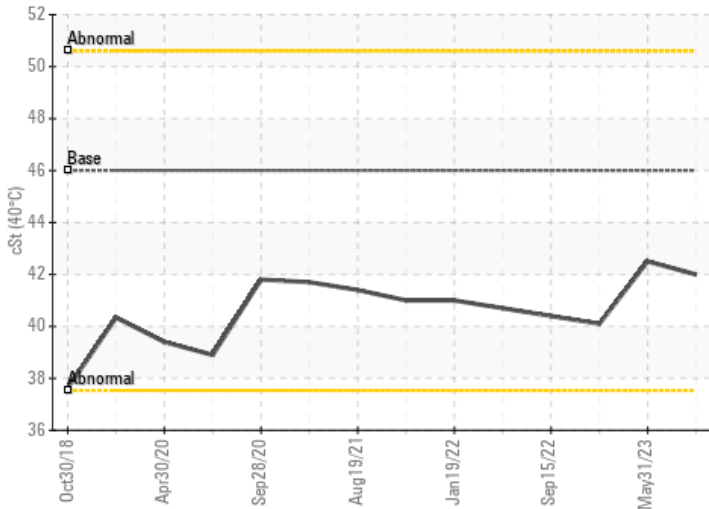
Ferrous Alloys



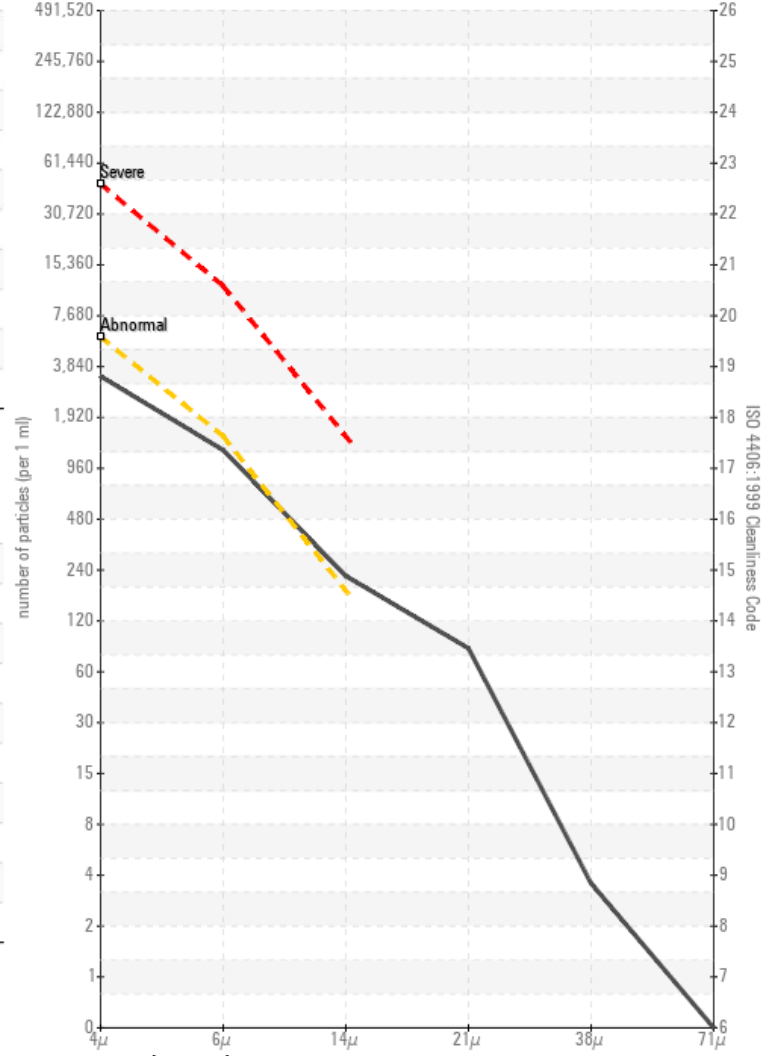
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

