



CONSTRUCTION EQUIPMENT

W14603 VOLVO L220H 2884 - HYDRAULIC SYSTEM



Sample No: VCP374108
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: W14603



SAMPLE INFORMATION

Sample Number	VCP374108	VCP405884	VCP381336	VCP384061
Sample Date	31 Aug 2023	02 Jun 2023	13 Feb 2023	05 Oct 2022
Machine Hours	9538	8994	2521	7990
Oil Hours	500	1000	500	2000
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	42.3	43.2	43.9	40.8
Acid Number (AN)	mg KOH/g	0.25	0.31	0.28	0.35



CONTAMINATION

Particles >4µm	4548	5561	7093	7120	
Particles >6µm	1516	1888	1516	1655	
Particles >14µm	160	175	75	168	
ISO 4406:1999 (c)	19/18/14	20/18/15	20/18/13	20/18/15	
Silicon	ppm	2	2	2	4
Sodium	ppm	1	<1	0	1
Potassium	ppm	0	<1	0	<1

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



ADDITIVES

Calcium	ppm	129	132	129	167
Magnesium	ppm	21	16	16	14
Zinc	ppm	437	478	437	486
Phosphorus	ppm	351	370	341	362
Barium	ppm	6	0	0	1
Boron	ppm	<1	<1	0	4

Depot: VOLVO0080
Unique No: 10635137
Signed: Wes Davis
Report Date: 08 Sep 2023

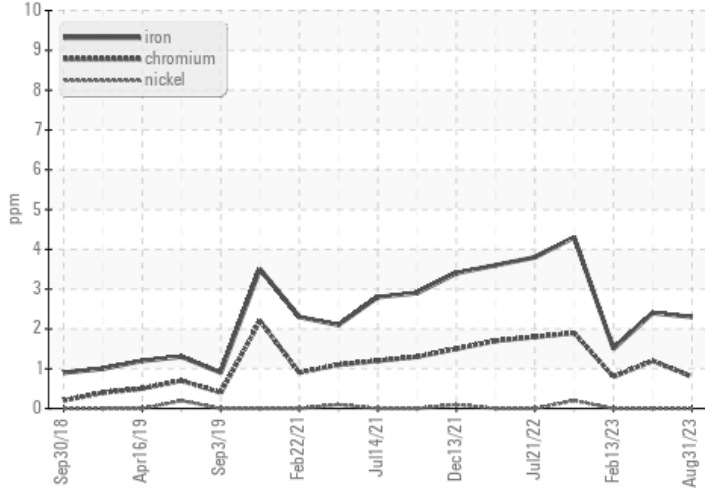


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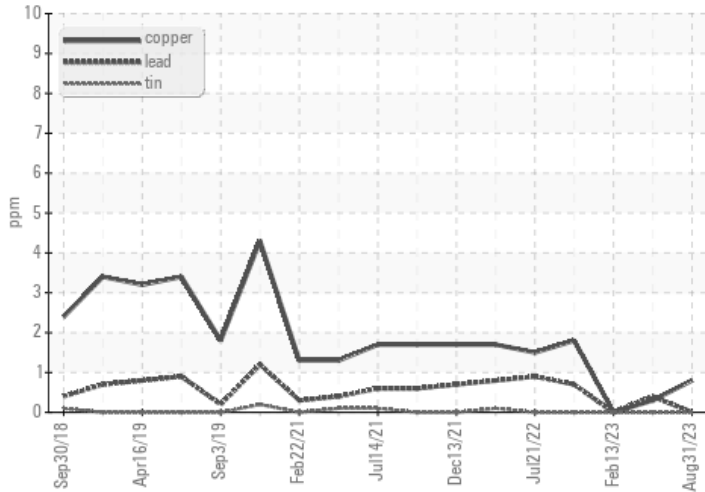


GRAPHS

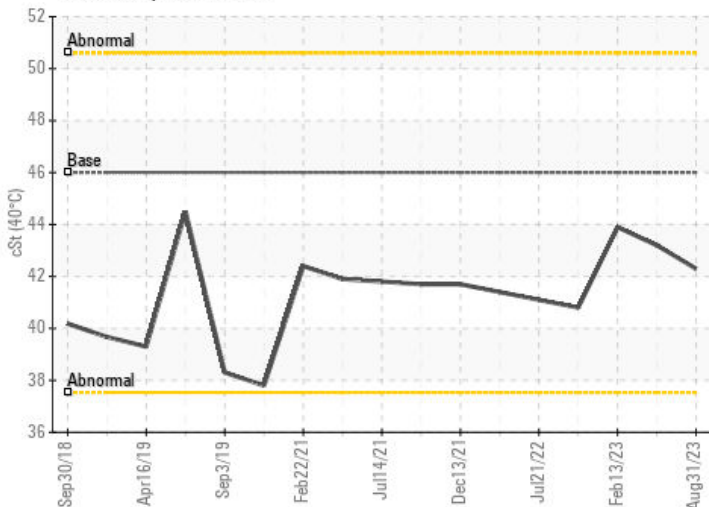
Ferrous Alloys



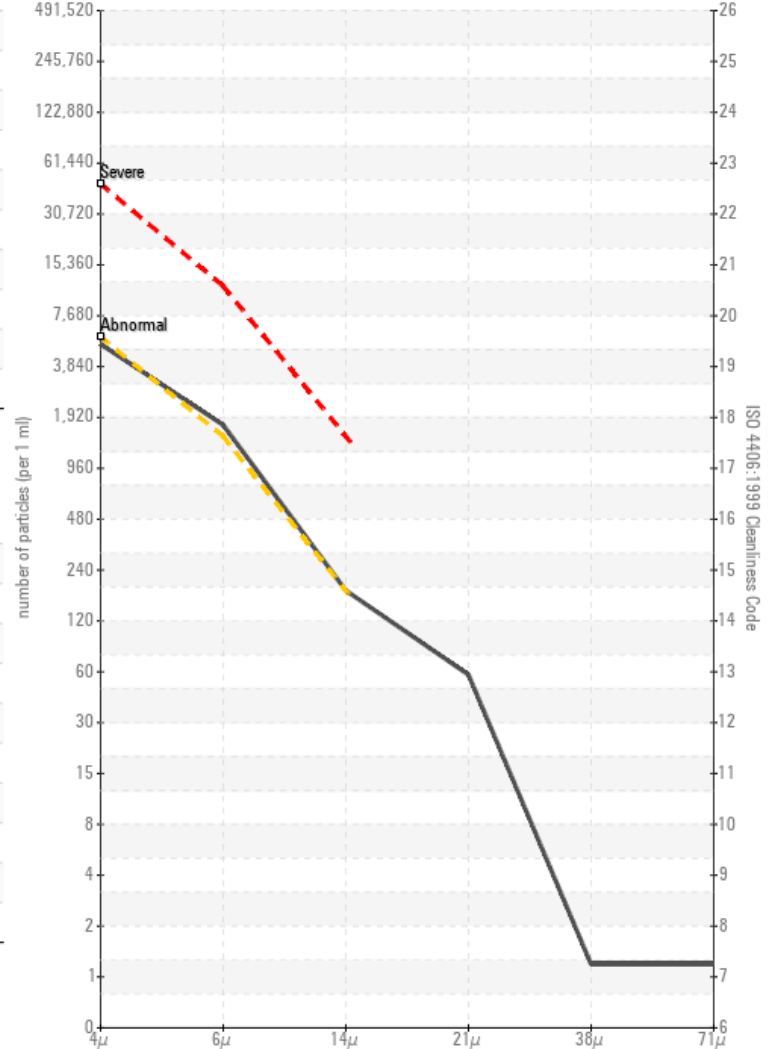
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

