



CONSTRUCTION EQUIPMENT

VOLVO EC380 314840 - HYDRAULIC SYSTEM



Sample No: VCP415997
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP415997	VCP395866	VCP370645	VCP363890
Sample Date	06 Jul 2023	31 Jan 2023	19 Dec 2022	27 Aug 2022
Machine Hours	3195	1849	1563	1084
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	41.4	42.7	42.7	47.0
Acid Number (AN)	mg KOH/g	0.52	0.46	0.47	0.49



CONTAMINATION

Particles >4µm	6313	1158	31375	5541	
Particles >6µm	1499	127	6873	1258	
Particles >14µm	46	6	289	71	
ISO 4406:1999 (c)	20/18/13	17/14/10	22/20/15	20/17/13	
Silicon	ppm	7	4	4	2
Sodium	ppm	<1	1	1	1
Potassium	ppm	<1	0	2	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	7	5	4	2
Copper	ppm	15	21	17	14
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	4	0	<1	<1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	<1	1	1	1
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	105	130	124	121
Magnesium	ppm	4	5	6	4
Zinc	ppm	512	480	519	498
Phosphorus	ppm	394	383	405	405
Barium	ppm	0	0	0	<1
Boron	ppm	0	0	0	2

Depot: VOLVO0090
Unique No: 10551396
Signed: Wes Davis
Report Date: 12 Jul 2023

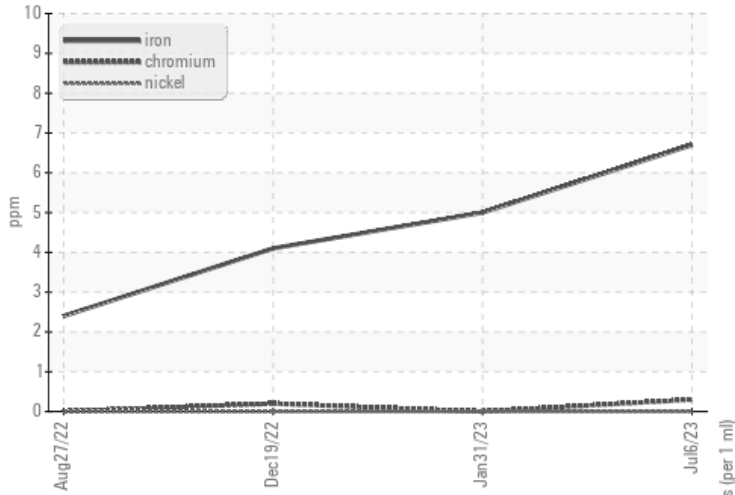


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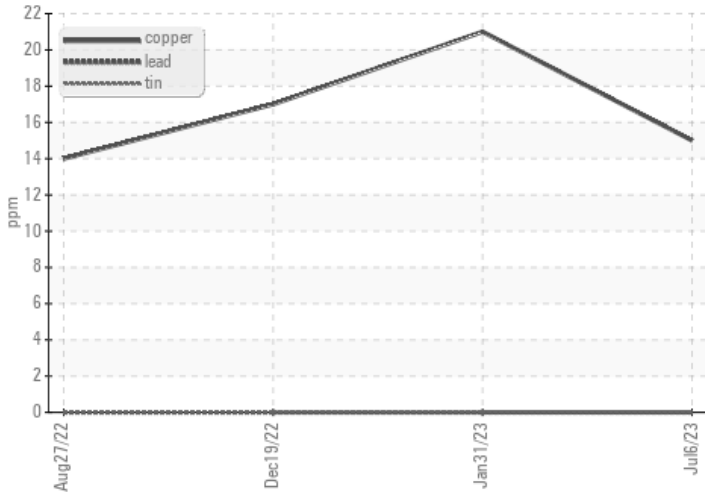


GRAPHS

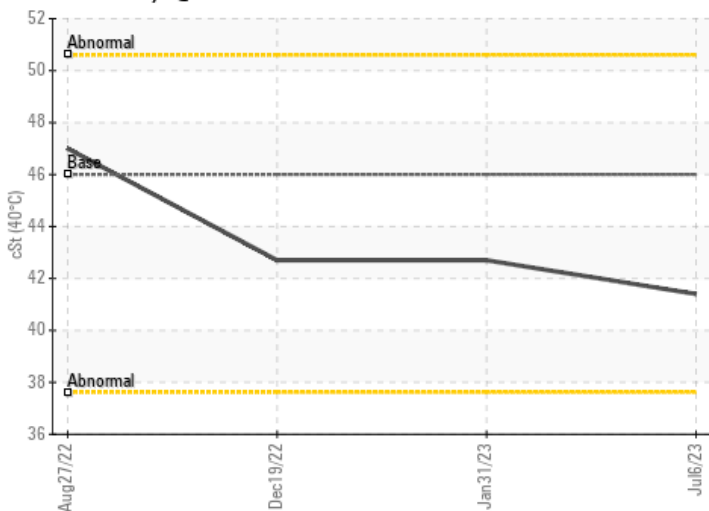
Ferrous Alloys



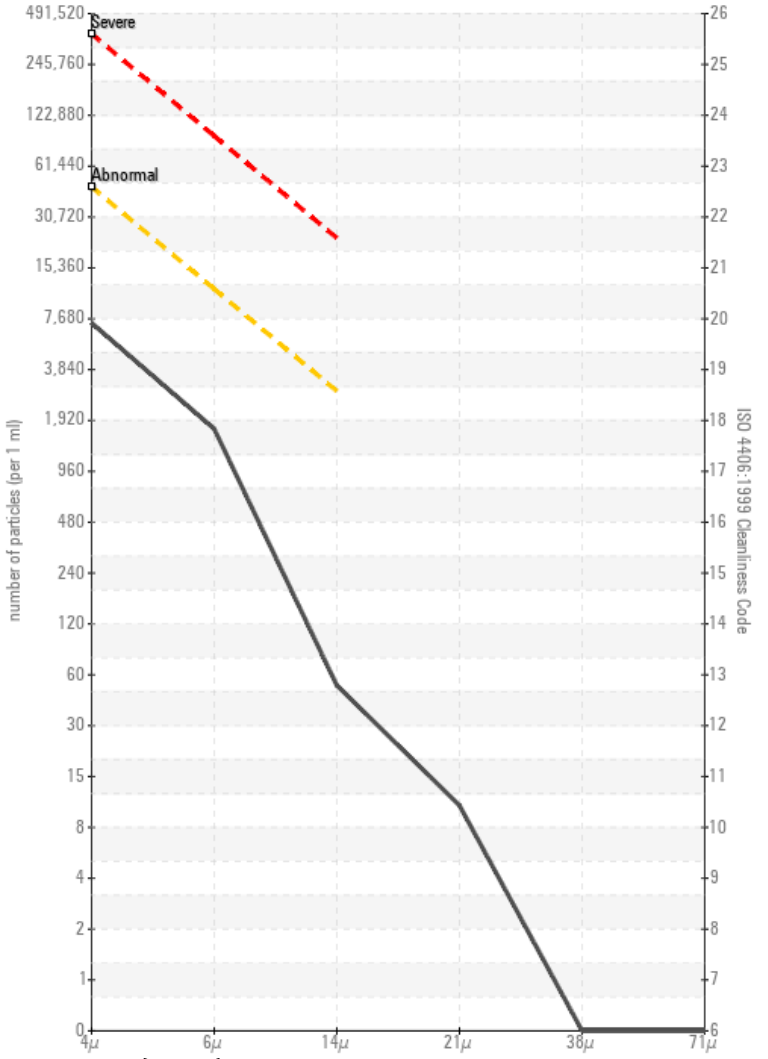
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

