



CONSTRUCTION EQUIPMENT

688640 RENTALS VOLVO EC480E 315141 - HYDRAULIC SYSTEM



Sample No: VCP453878
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 688640 RENTALS



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SAMPLE INFORMATION

Sample Number	VCP453878	VCP437953	VCP440728	VCP412209
Sample Date	20 Mar 2024	27 Jan 2024	23 Dec 2023	16 Aug 2023
Machine Hours	3020	2449	2130	1133
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	42.4	42.2	42.6	42.9
Acid Number (AN)	mg KOH/g	0.57	0.72	0.56	0.54

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		5374	17230	22789	706
Particles >6µm		1195	3543	4218	59
Particles >14µm		49	91	147	6
ISO 4406:1999 (c)		20/17/13	21/19/14	22/19/14	17/13/10
Silicon	ppm	4	4	6	4
Sodium	ppm	<1	1	0	<1
Potassium	ppm	0	0	1	0

WEAR METALS

Iron	ppm	1	2	3	<1
Copper	ppm	10	11	16	7
Lead	ppm	0	0	<1	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	0	<1	2	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	143	120	121	118
Magnesium	ppm	2	1	1	<1
Zinc	ppm	496	471	550	508
Phosphorus	ppm	402	389	466	397
Barium	ppm	0	0	10	0
Boron	ppm	0	0	0	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.

Depot: VOLVO0096
Unique No: 10941860
Signed: Wes Davis
Report Date: 26 Mar 2024

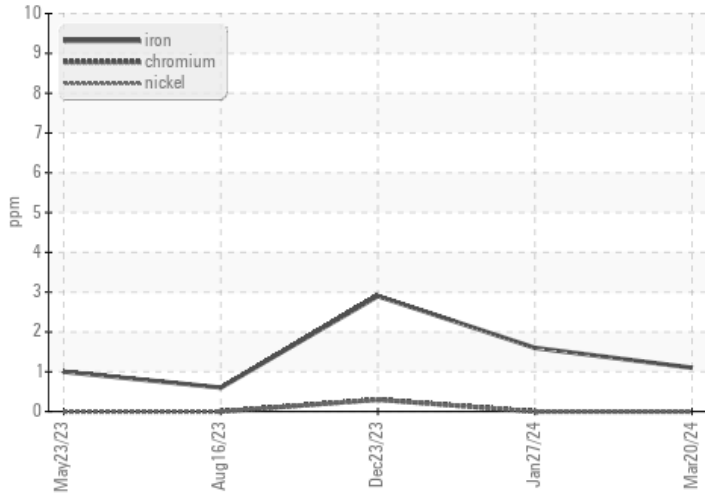


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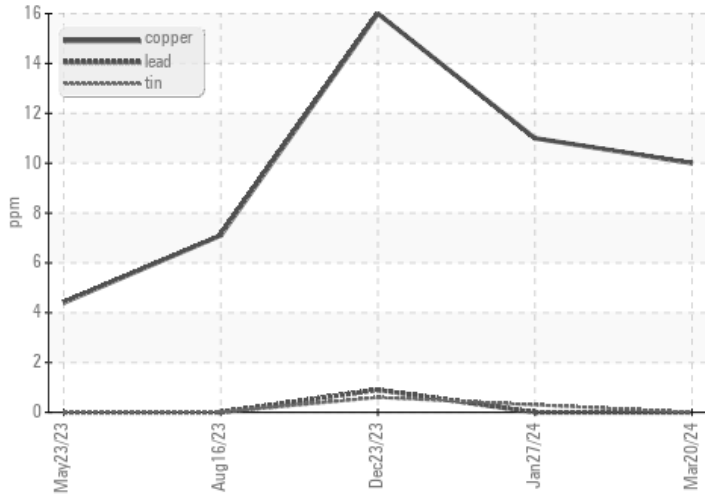


GRAPHS

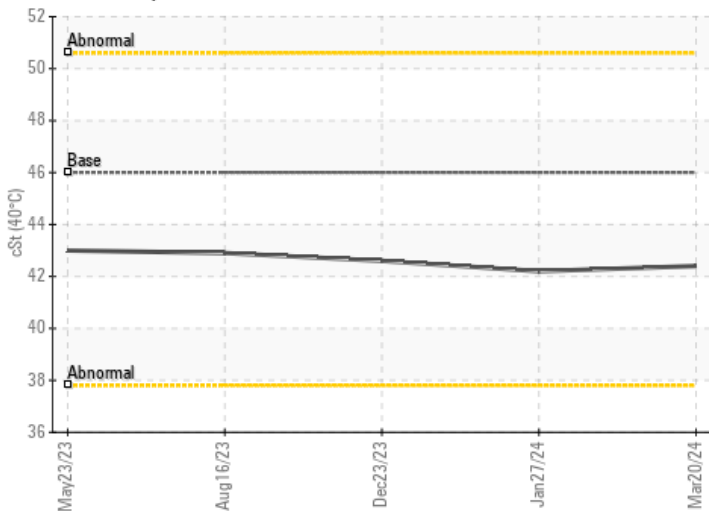
Ferrous Alloys



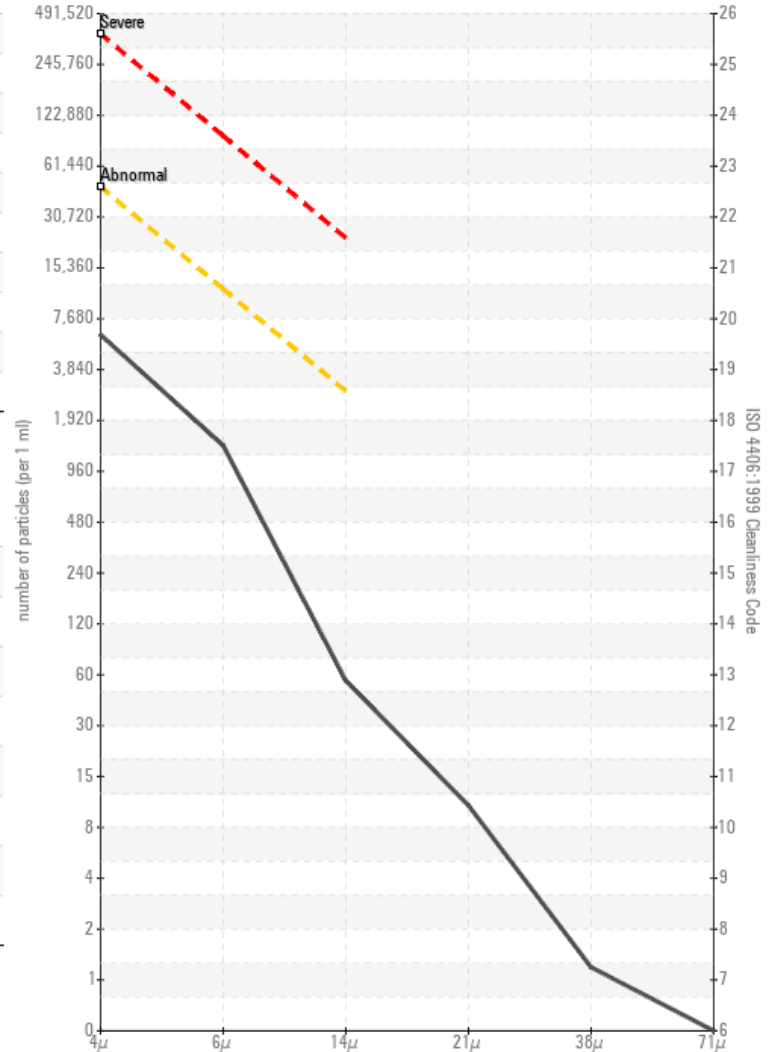
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

