



CONSTRUCTION EQUIPMENT

SWA320051 COASTAL WA VOLVO EC220 314140 - HYDRAULIC SYSTEM



Sample No: VCP410040
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA320051 COASTAL WA



SAMPLE INFORMATION

Sample Number	VCP410040	VCP321303	VCP314963	VCP290270
Sample Date	26 Jul 2023	10 Aug 2021	20 Mar 2021	19 Nov 2020
Machine Hours	3879	2421	1067	503
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT COMPANY

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 DAVIE, FL
 US 33314

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OIL CONDITION

Visc @ 40°C	cSt	45.4	44.9	45.1	45.0
Acid Number (AN)	mg KOH/g	0.47	0.621	0.642	0.686



CONTAMINATION

Particles >4µm	9262	3152	7181	3033	
Particles >6µm	580	514	1697	522	
Particles >14µm	54	20	98	50	
ISO 4406:1999 (c)	20/16/13	19/16/11	20/18/14	19/16/13	
Silicon	ppm	3	5	3	4
Sodium	ppm	2	2	0	<1
Potassium	ppm	<1	2	<1	<1



WEAR METALS

Iron	ppm	8	4	3	2
Copper	ppm	25	51	39	25
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	0	0	0
Chromium	ppm	3	1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	77	107	128	120
Magnesium	ppm	2	1	<1	<1
Zinc	ppm	487	648	665	687
Phosphorus	ppm	407	498	508	527
Barium	ppm	0	0	0	0
Boron	ppm	0	0	1	<1

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: VOLVO0095
Unique No: 10577666
Signed: Wes Davis
Report Date: 01 Aug 2023

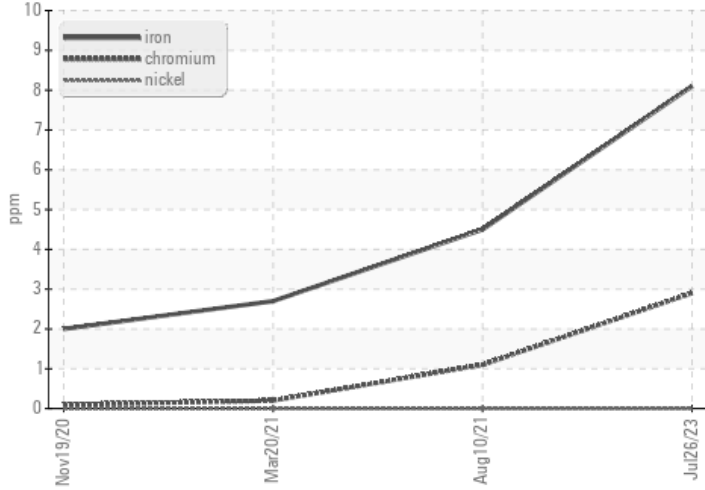


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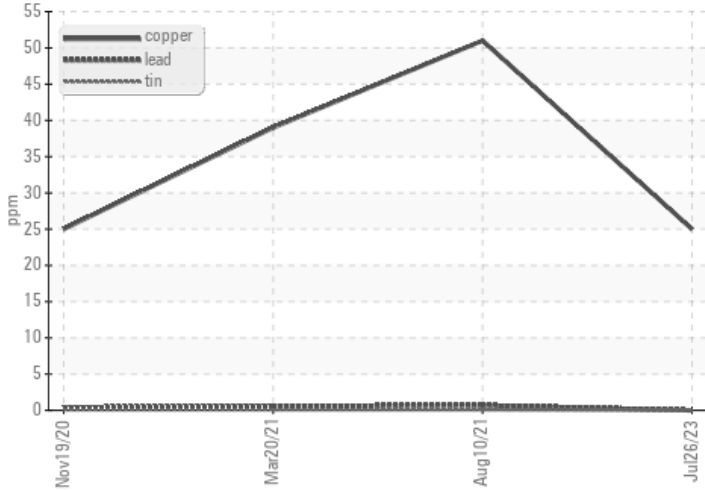


VOLVO GRAPHS

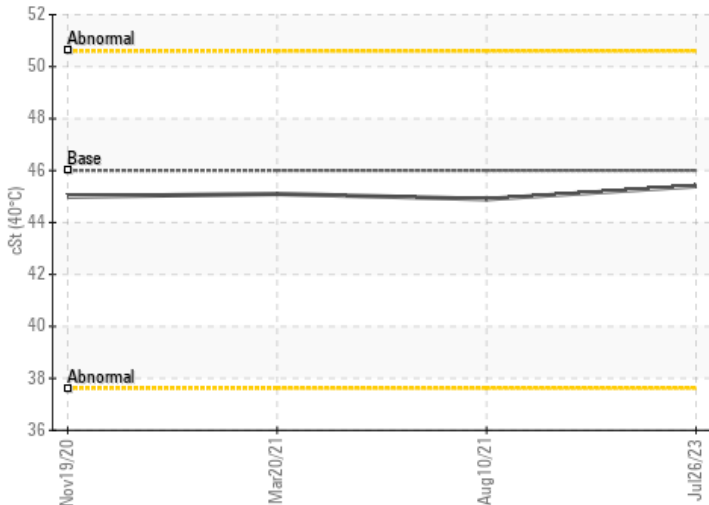
Ferrous Alloys



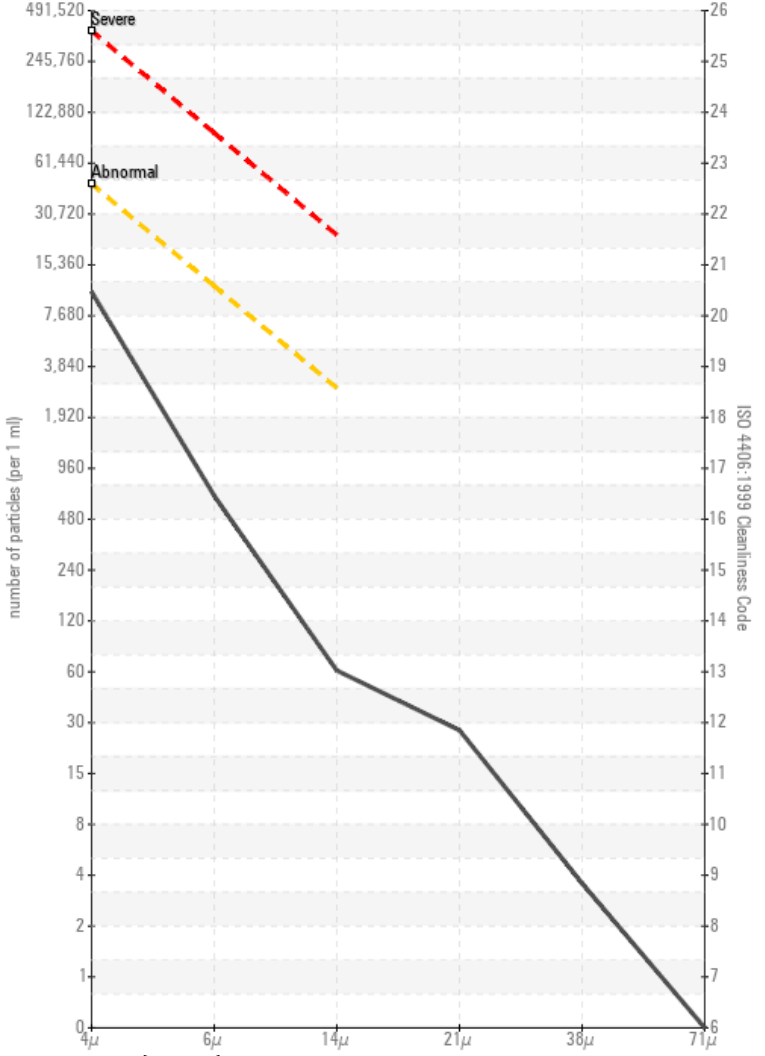
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

