



CONSTRUCTION EQUIPMENT

581770 CENTRAL SITE VOLVO EC350 310468 - HYDRAULIC SYSTEM



Sample No: VCP412000
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 581770 CENTRAL SITE



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SAMPLE INFORMATION

Sample Number	VCP412000	VCP385156	VCP340376	VCP310943
Sample Date	03 Aug 2023	15 Nov 2022	22 Oct 2021	31 Mar 2021
Machine Hours	7007	6545	5193	4577
Oil Hours	1000	2000	1500	500
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	42.3	40.8	41.8	41.7
Acid Number (AN)	mg KOH/g	0.45	0.38	0.376	0.454



CONTAMINATION

Particles >4µm		6628	9010	53478	22430
Particles >6µm		414	1483	3590	3343
Particles >14µm		55	84	79	228
ISO 4406:1999 (c)		20/16/13	20/18/14	23/19/13	22/19/15
Silicon	ppm	5	8	5	3
Sodium	ppm	0	<1	<1	0
Potassium	ppm	1	0	<1	0



WEAR METALS

Iron	ppm	12	17	7	2
Copper	ppm	10	30	26	24
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	0	1	<1	0
Chromium	ppm	<1	2	1	1
Molybdenum	ppm	3	2	3	3
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	73	63	63	64
Magnesium	ppm	10	6	8	9
Zinc	ppm	411	380	410	452
Phosphorus	ppm	323	365	377	391
Barium	ppm	0	0	0	0
Boron	ppm	0	0	3	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: VOLVO0093
Unique No: 10620127
Signed: Wes Davis
Report Date: 28 Aug 2023

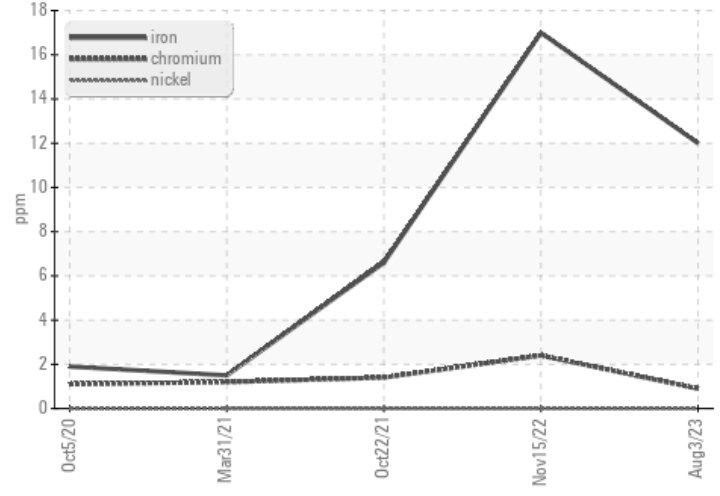


CONSTRUCTION EQUIPMENT

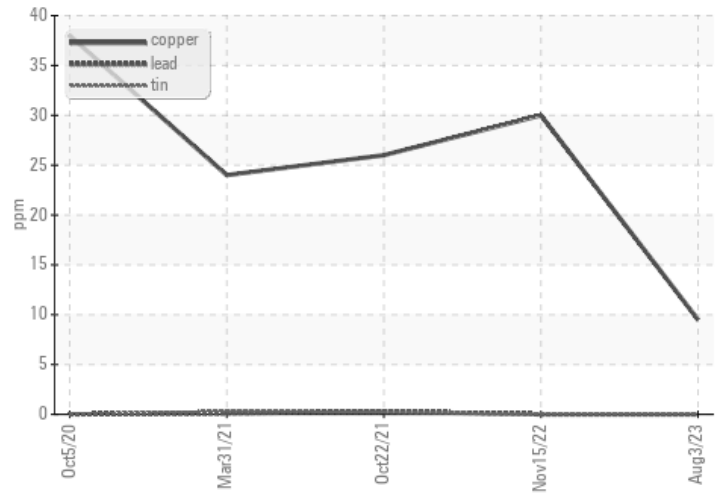


GRAPHS

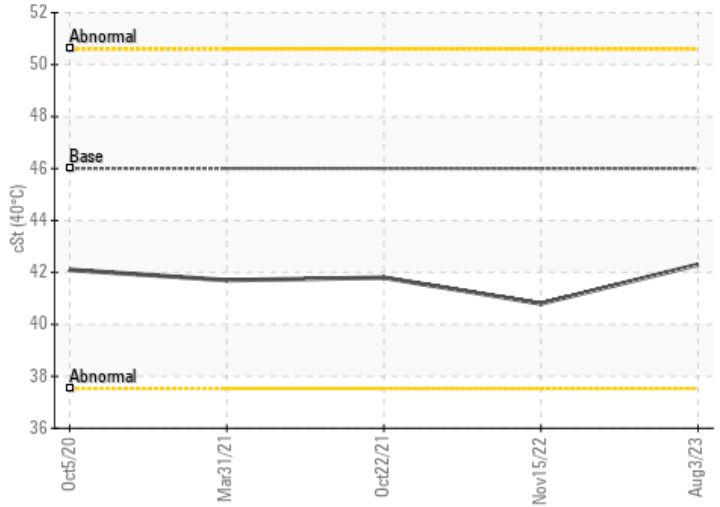
Ferrous Alloys



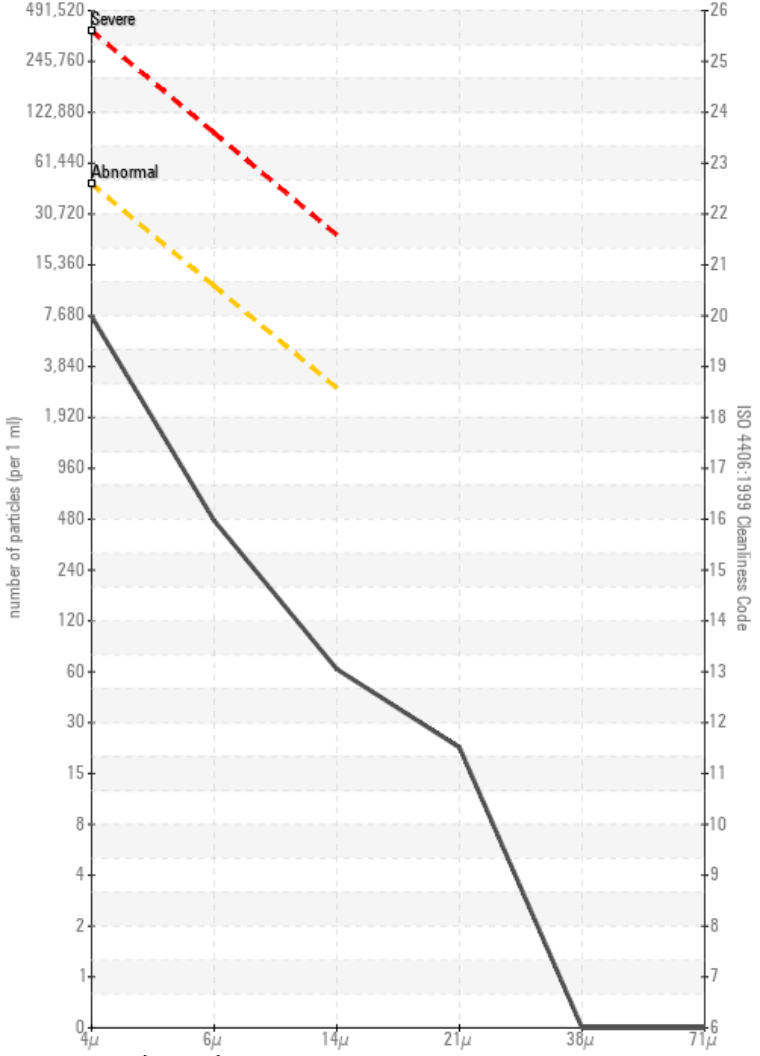
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

