



CONSTRUCTION EQUIPMENT

600105 CRC VOLVO L120H 632093 - HYDRAULIC SYSTEM



Sample No: VCP346233
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 600105 CRC



SAMPLE INFORMATION

Sample Number	VCP346233	VCP363787	VCP344840	VCP256228
Sample Date	31 Mar 2023	11 Oct 2022	18 Apr 2022	22 Sep 2021
Machine Hours	0	16539	15363	13474
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.3	42.7	43.8	42.0
Acid Number (AN)	mg KOH/g	0.32	0.45	0.767	0.424



CONTAMINATION

Particles >4µm		450	4834	17596	4964
Particles >6µm		137	1440	4530	1200
Particles >14µm		11	▲ 171	▲ 253	52
ISO 4406:1999 (c)		16/14/11	19/18/15	21/19/15	19/17/13
Silicon	ppm	2	2	3	3
Sodium	ppm	6	4	6	6
Potassium	ppm	1	0	0	<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.



WEAR METALS

Iron	ppm	4	3	5	4
Copper	ppm	2	1	2	2
Lead	ppm	0	0	<1	1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	0	1	<1	<1
Chromium	ppm	1	<1	2	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	99	89	159	71
Magnesium	ppm	6	0	13	<1
Zinc	ppm	487	470	476	482
Phosphorus	ppm	387	383	410	373
Barium	ppm	0	0	0	0
Boron	ppm	0	0	2	3

Depot: VOLVO1271
Unique No: 10661747
Signed: Wes Davis
Report Date: 26 Sep 2023

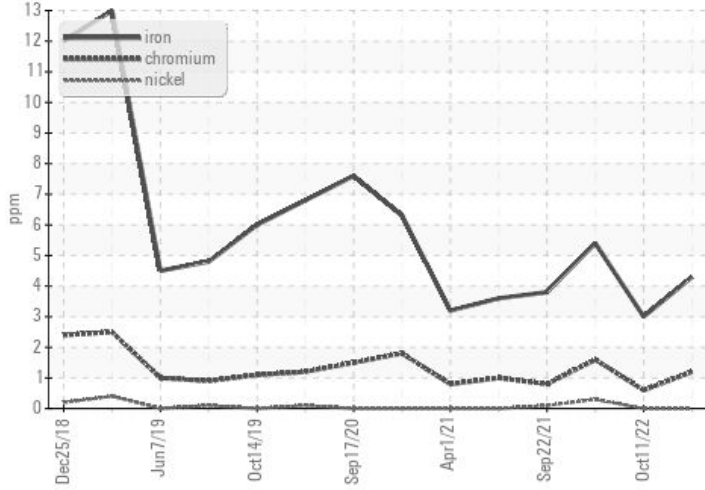


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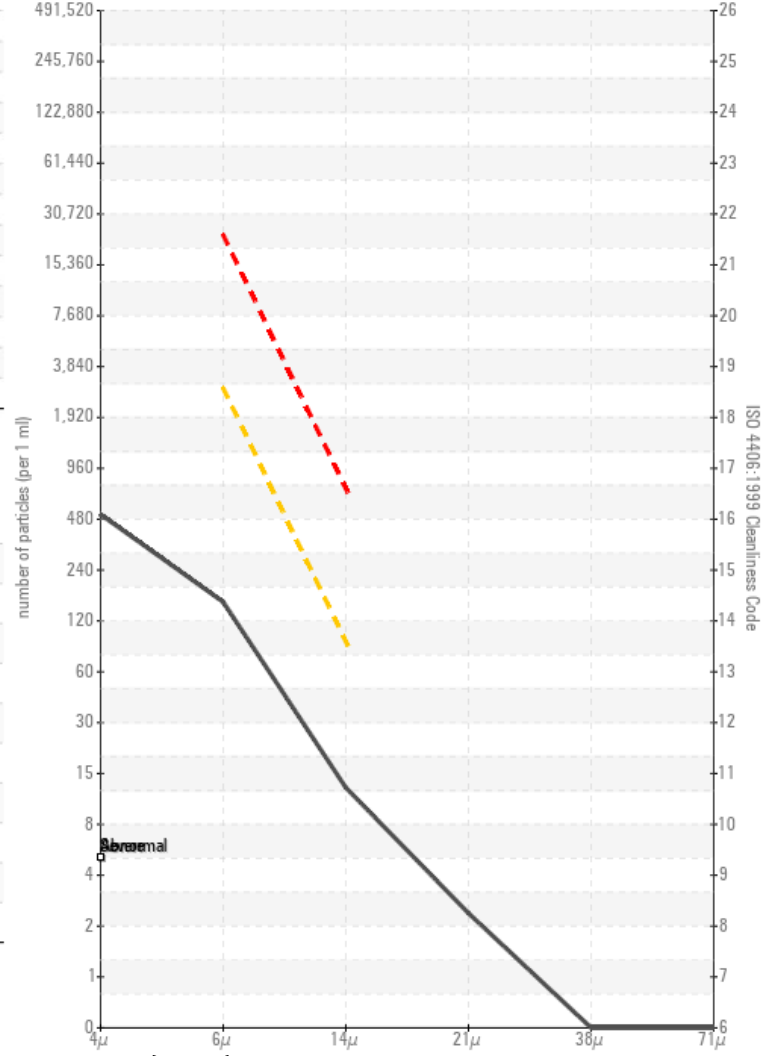


VOLVO GRAPHS

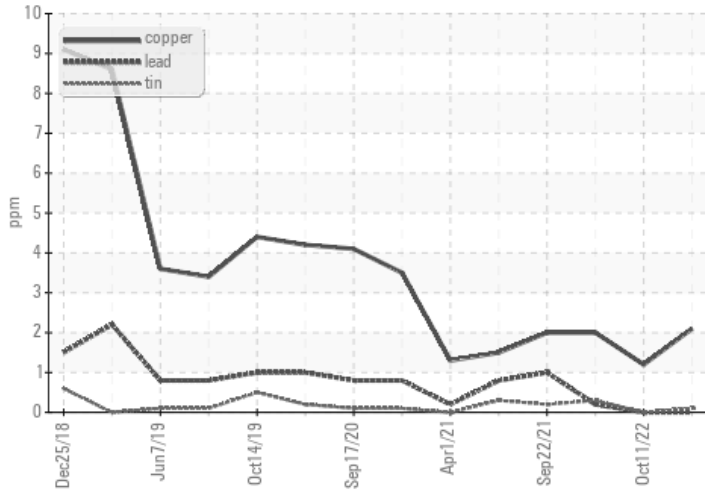
Ferrous Alloys



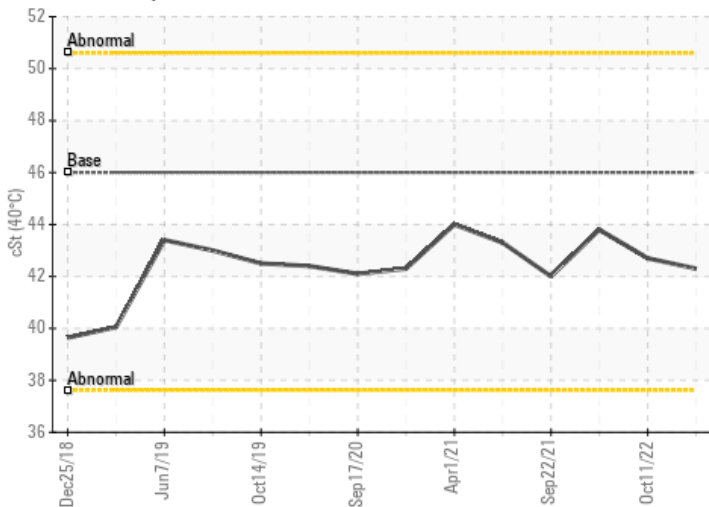
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

