



CONSTRUCTION EQUIPMENT

600106 CRC VOLVO EC160E 310147 - HYDRAULIC SYSTEM



Sample No: VCP346232
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 600106 CRC



SAMPLE INFORMATION

Sample Number	VCP346232	VCP371481	VCP362551	VCP256044
Sample Date	31 Mar 2023	09 Jan 2023	11 Oct 2022	21 Sep 2021
Machine Hours	0	10533	10021	6190
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	N/A	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	40.2	41.1	41.3	40.1
Acid Number (AN)	mg KOH/g	0.43	0.39	0.44	1.209



CONTAMINATION

Particles >4µm		5193	2721	11462	▲ 104604
Particles >6µm		580	123	1729	4622
Particles >14µm		24	5	113	90
ISO 4406:1999 (c)		20/16/12	19/14/10	21/18/14	24/19/14
Silicon	ppm	2	1	2	13
Sodium	ppm	4	0	1	1
Potassium	ppm	1	<1	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	6	4	<1	26
Copper	ppm	12	9	5	2
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	<1	0	0	<1
Chromium	ppm	7	4	3	<1
Molybdenum	ppm	<1	<1	<1	1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	55	51	31	4513
Magnesium	ppm	3	2	4	16
Zinc	ppm	497	495	507	1755
Phosphorus	ppm	407	378	393	1431
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	151

Depot: VOLVO1271
Unique No: 10661746
Signed: Wes Davis
Report Date: 26 Sep 2023

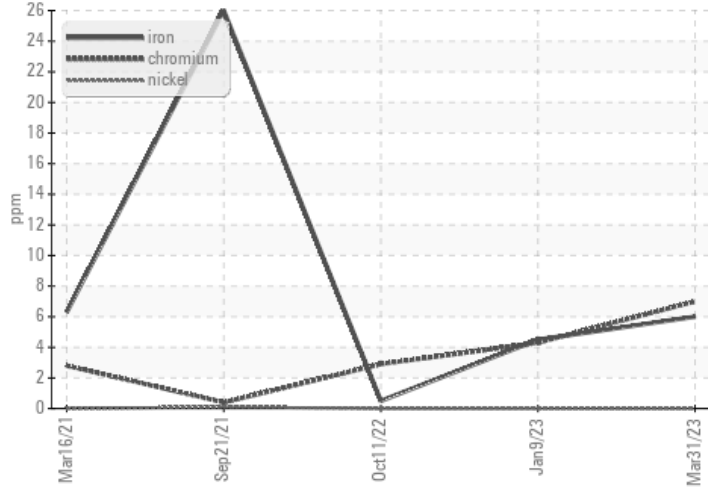


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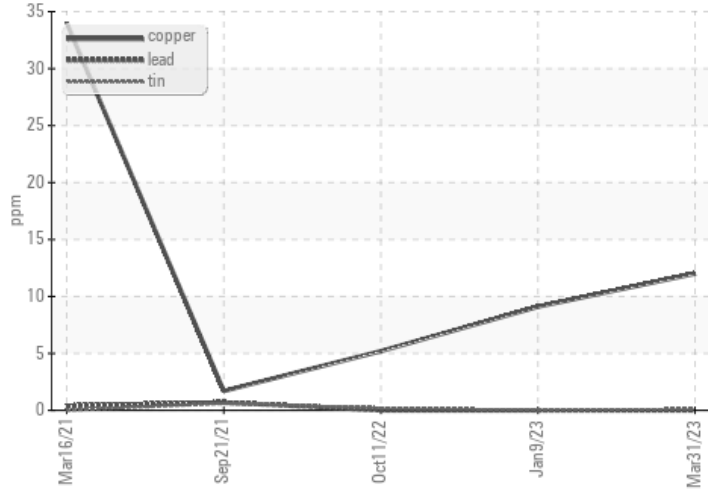


GRAPHS

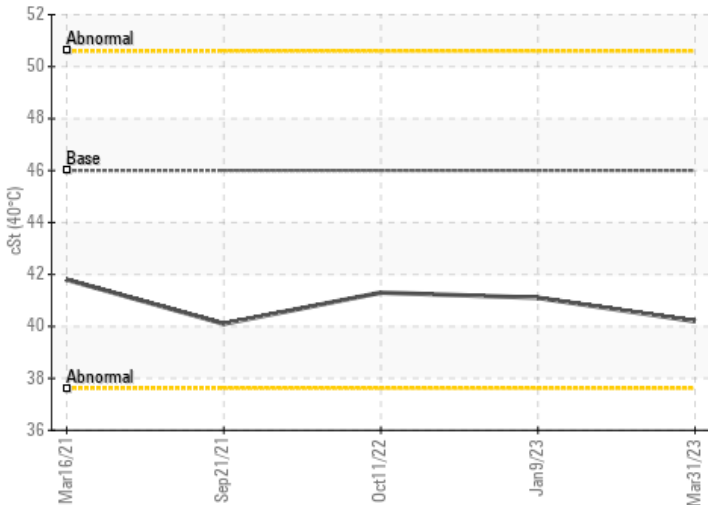
Ferrous Alloys



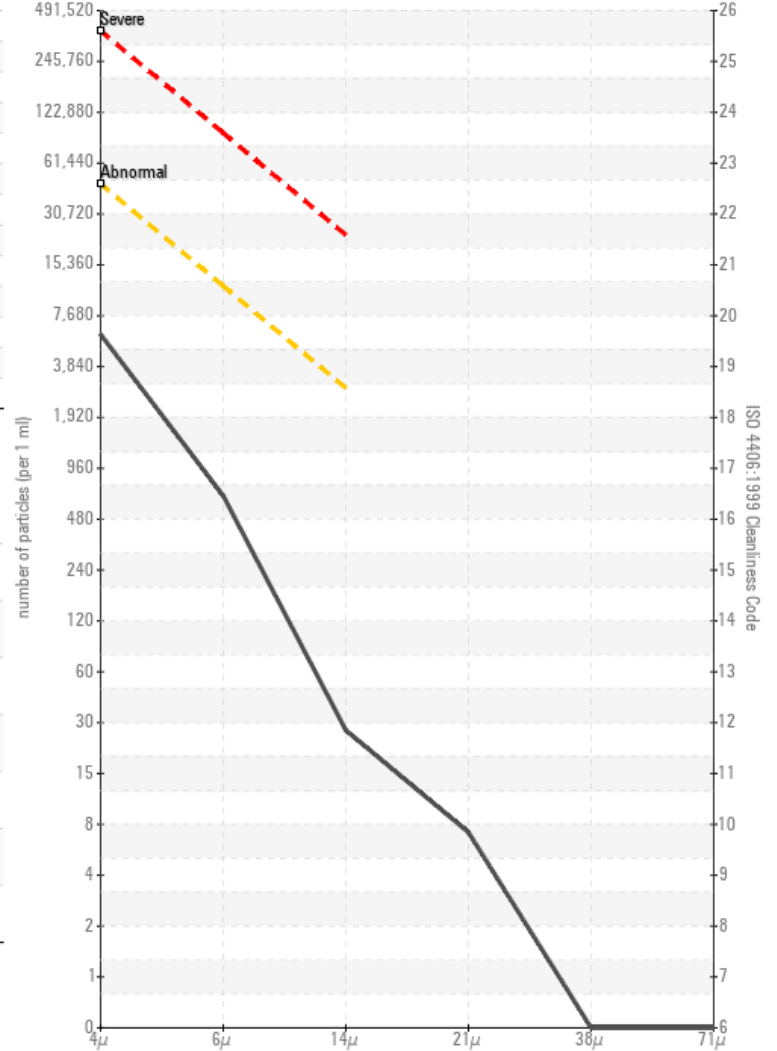
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

