



CONSTRUCTION EQUIPMENT

SWA432421 COT VOLVO EW160 323426 - HYDRAULIC SYSTEM



Sample No: VCP428686
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA432421 COT



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SAMPLE INFORMATION

Sample Number	VCP428686	VCP395348	VCP390686	---
Sample Date	08 Dec 2023	05 Jan 2023	23 Sep 2022	---
Machine Hours	5787	4196	3597	---
Oil Hours	1700	4196	1500	---
Oil Changed	Not Chngd	Changed	Not Chngd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

OIL CONDITION

Visc @ 40°C	cSt	43.3	46.8	46.1	---
Acid Number (AN)	mg KOH/g	0.32	0.42	0.48	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		2966	7565	24554	---
Particles >6µm		71	285	1387	---
Particles >14µm		15	7	32	---
ISO 4406:1999 (c)		19/13/11	20/15/10	22/18/12	---
Silicon	ppm	3	6	8	---
Sodium	ppm	2	2	8	---
Potassium	ppm	<1	4	4	---

WEAR METALS

Iron	ppm	3	5	5	---
Copper	ppm	8	13	13	---
Lead	ppm	<1	1	1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	0	0	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	1	5	8	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	88	137	203	---
Magnesium	ppm	8	16	25	---
Zinc	ppm	402	396	395	---
Phosphorus	ppm	327	314	329	---
Barium	ppm	0	0	0	---
Boron	ppm	2	5	11	---

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: 10846184
Signed: Wes Davis
Report Date: 25 Jan 2024

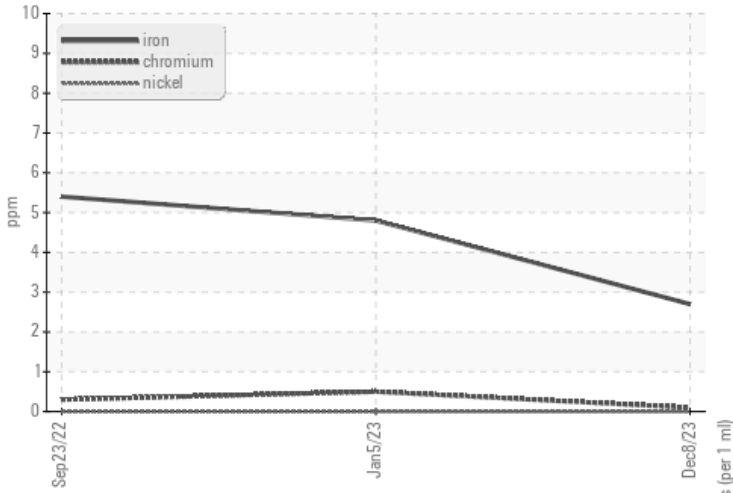


CONSTRUCTION EQUIPMENT

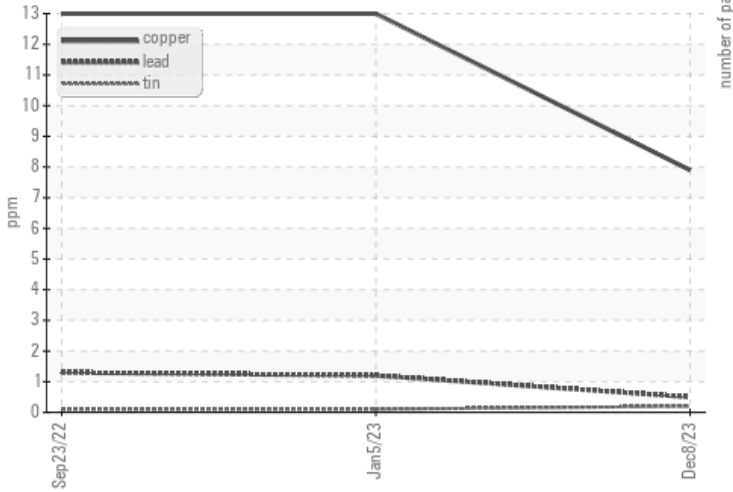


VOLVO GRAPHS

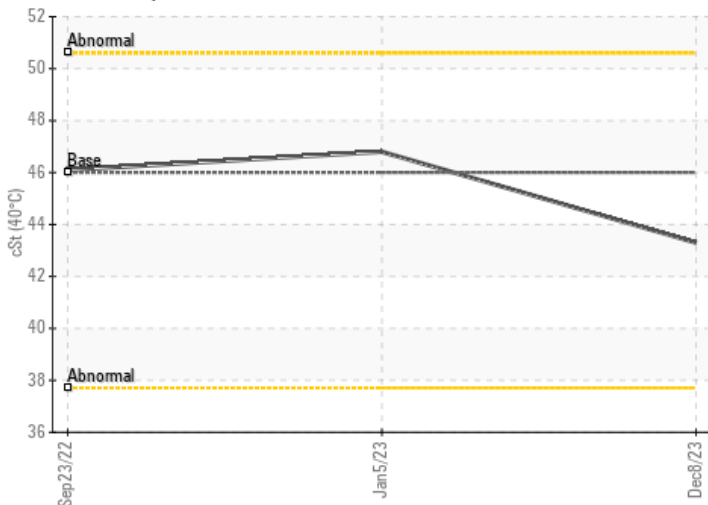
Ferrous Alloys



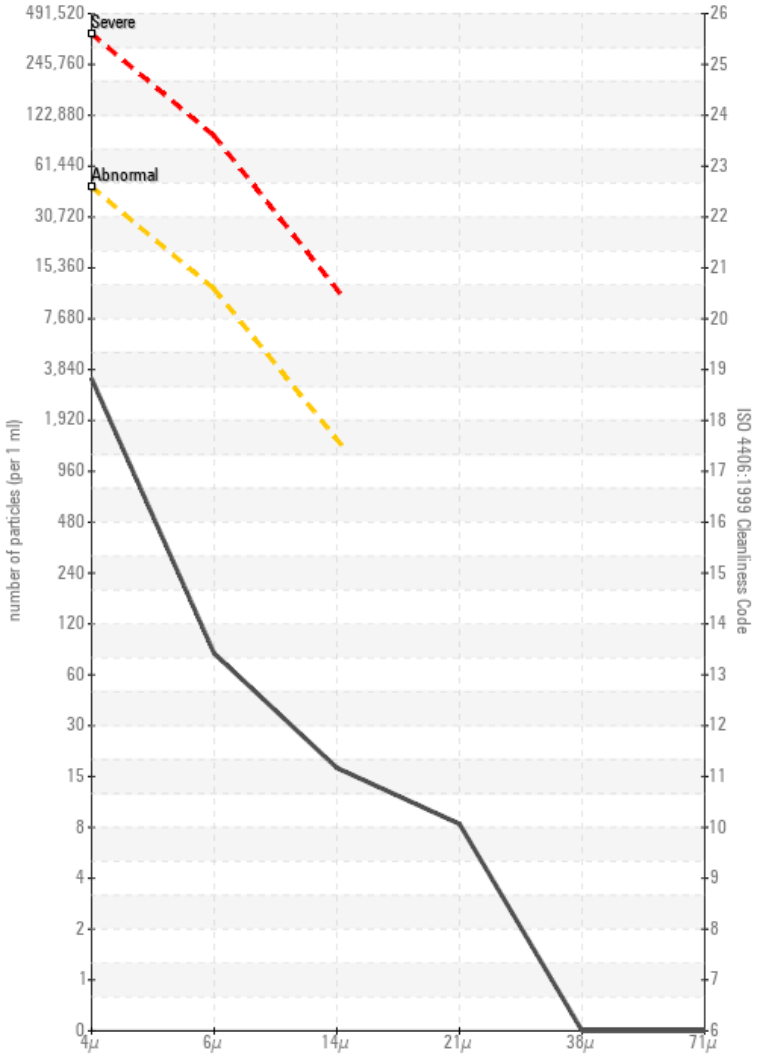
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

