



CONSTRUCTION EQUIPMENT

659045 MOSAIC CO VOLVO EC480E 314327 - HYDRAULIC SYSTEM



Sample No: VCP440008
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 659045 MOSAIC CO



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SAMPLE INFORMATION

Sample Number	VCP440008	VCP414650	VCP403994	VCP398832
Sample Date	18 Jan 2024	19 Aug 2023	31 Mar 2023	02 Dec 2022
Machine Hours	4658	4013	3549	3030
Oil Hours	500	2000	1549	1030
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	43.2	43.9	43.3	42.6
Acid Number (AN)	mg KOH/g	0.33	0.34	0.35	0.48



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2063	42575	11287	11773
Particles >6µm		472	5096	1577	2067
Particles >14µm		52	111	76	33
ISO 4406:1999 (c)		18/16/13	23/20/14	21/18/13	21/18/12
Silicon	ppm	6	6	4	7
Sodium	ppm	0	3	<1	0
Potassium	ppm	0	0	0	1



WEAR METALS

Iron	ppm	1	11	8	6
Copper	ppm	11	20	17	26
Lead	ppm	<1	<1	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	1	0	0
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	<1	<1	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	468	727	563	60
Magnesium	ppm	7	7	13	2
Zinc	ppm	511	570	467	438
Phosphorus	ppm	405	454	402	355
Barium	ppm	0	0	0	0
Boron	ppm	1	<1	0	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: 10861816
Signed: Wes Davis
Report Date: 06 Feb 2024

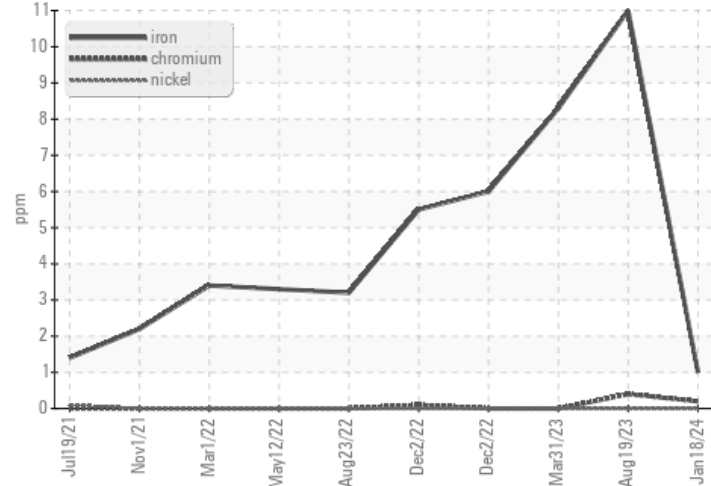


CONSTRUCTION EQUIPMENT

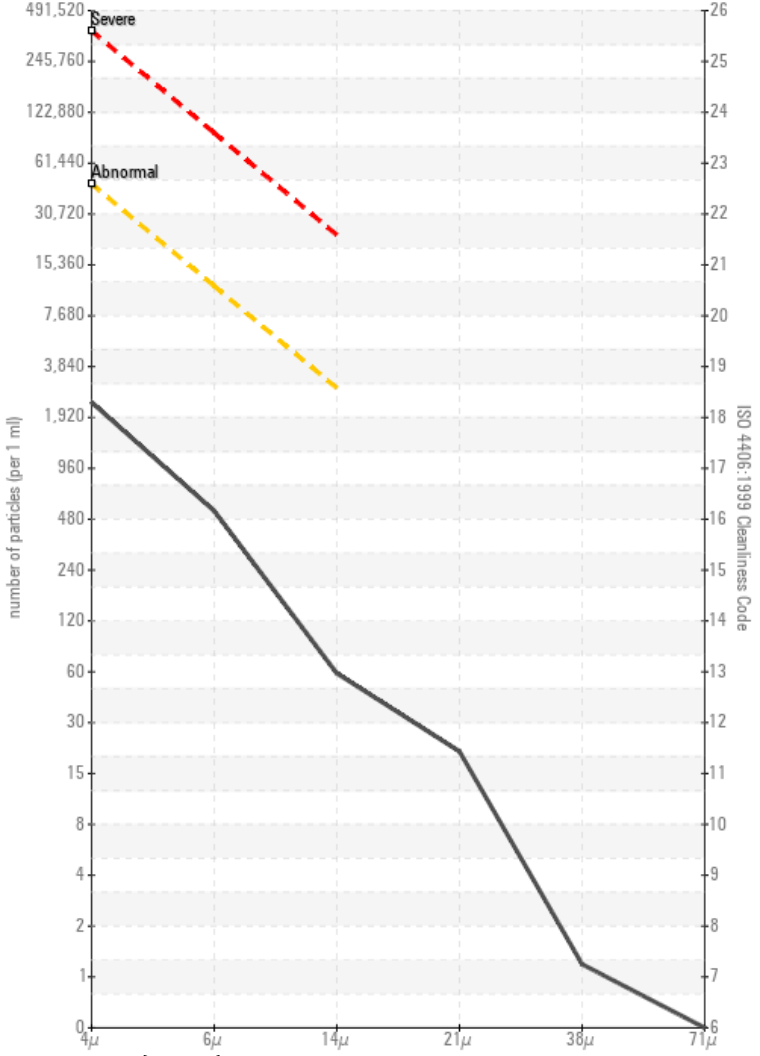


GRAPHS

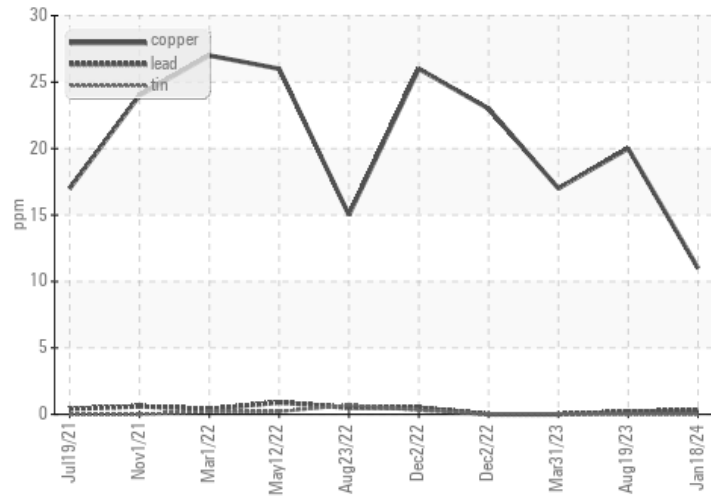
Ferrous Alloys



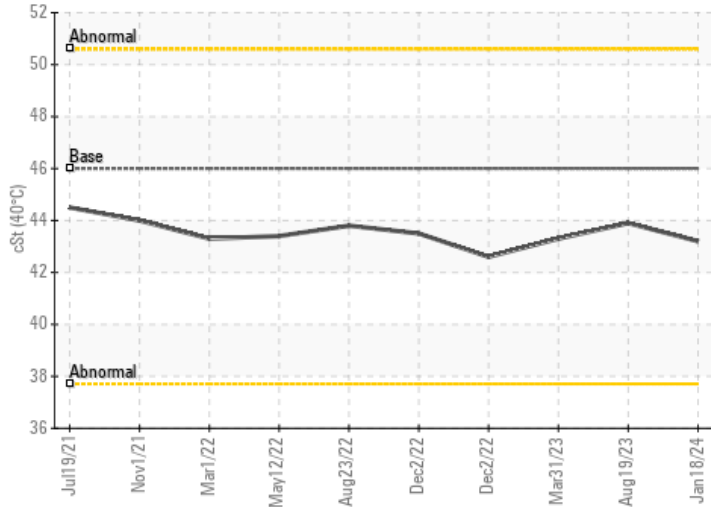
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

