



CONSTRUCTION EQUIPMENT

SWO-068407 VOLVO EC380EL 310021 - HYDRAULIC SYSTEM



Sample No: VCP428710
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-068407



SAMPLE INFORMATION

Sample Number	VCP428710	VCP431087	VCP407505	VCP356244
Sample Date	21 Dec 2023	07 Sep 2023	18 May 2023	03 Nov 2022
Machine Hours	10648	10247	9662	9133
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

WHITAKER CONTRACTING

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 US 35976
 Contact: BROTHER WHITAKER
 BrotherWhitaker@whitaker-contracting.com
 T: (256)298-3905
 F:



OIL CONDITION

Visc @ 40°C	cSt	44.8	45.0	44.2	44.4
Acid Number (AN)	mg KOH/g	0.37	0.37	0.36	0.36



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4003	21572	53088	22636
Particles >6µm		1244	2884	12131	1367
Particles >14µm		375	34	335	93
ISO 4406:1999 (c)		19/17/16	22/19/12	23/21/16	22/18/14
Silicon	ppm	7	7	12	13
Sodium	ppm	<1	3	3	<1
Potassium	ppm	0	2	2	2

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	8	8	14	15
Copper	ppm	9	9	15	17
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	3	<1	6	6
Chromium	ppm	<1	1	2	2
Molybdenum	ppm	0	0	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	125	134	136	165
Magnesium	ppm	0	4	9	10
Zinc	ppm	419	453	406	432
Phosphorus	ppm	379	392	369	358
Barium	ppm	0	0	0	2
Boron	ppm	0	0	<1	3

Depot: WHIGUN
Unique No: 10809367
Signed: Wes Davis
Report Date: 03 Jan 2024

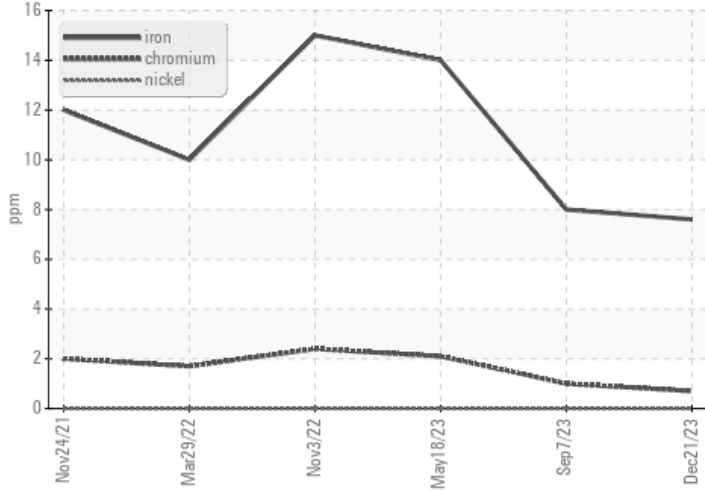


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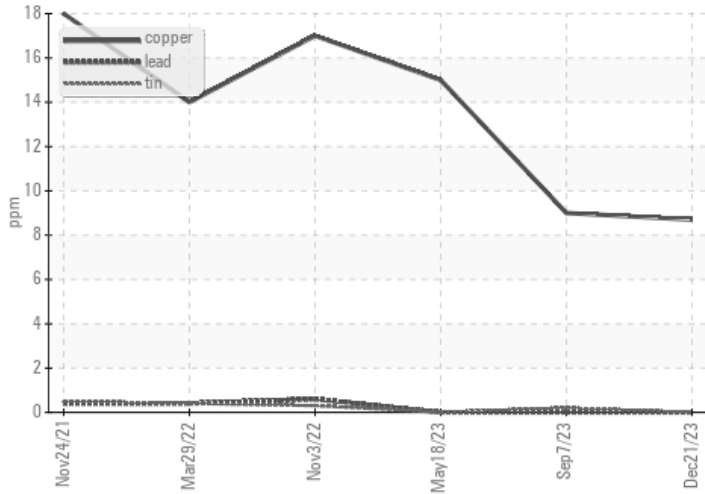


VOLVO GRAPHS

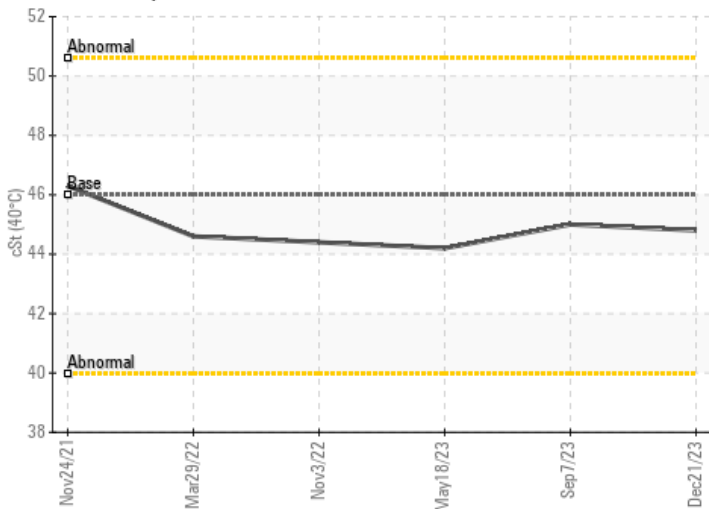
Ferrous Alloys



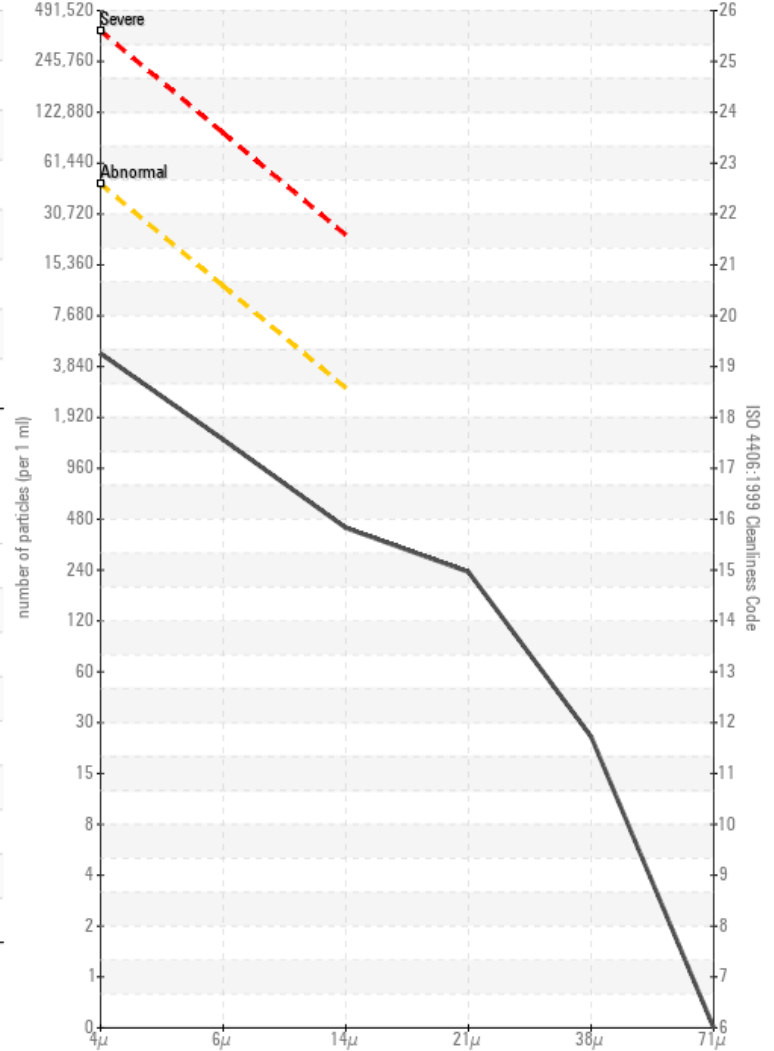
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

