



CONSTRUCTION EQUIPMENT

VOLVO EC300E 310346 - HYDRAULIC SYSTEM



Sample No: VCP445728

Oil Type: AW HYDRAULIC OIL ISO 46

Job No:



SAMPLE INFORMATION

Sample Number	VCP445728	VCP380837	VCP384125	VCP357752
Sample Date	16 Nov 2023	16 Jan 2023	05 Oct 2022	25 Mar 2022
Machine Hours	8510	7568	7067	6010
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Changed	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

WHITAKER CONTRACTING

692 CONVICT CAMP RD
GUNTERVILLE, AL
US 35976

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



OIL CONDITION

Visc @ 40°C	cSt	41.7	41.8	42.0	42.8
Acid Number (AN)	mg KOH/g	0.42	0.43	0.40	0.50



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		15383	16606	86433	---
Particles >6µm		3640	4116	18475	---
Particles >14µm		220	195	907	---
ISO 4406:1999 (c)		21/19/15	21/19/15	24/21/17	---
Silicon	ppm	4	3	0	3
Sodium	ppm	0	0	1	1
Potassium	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.



WEAR METALS

Iron	ppm	6	7	5	8
Copper	ppm	8	12	10	16
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	2	0	<1	<1
Chromium	ppm	2	2	1	2
Molybdenum	ppm	9	2	1	1
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	152	128	103	148
Magnesium	ppm	34	25	21	41
Zinc	ppm	502	490	460	479
Phosphorus	ppm	414	384	368	445
Barium	ppm	0	0	0	0
Boron	ppm	4	<1	0	2

Depot: WHIGUN
Unique No: 10754149
Signed: Wes Davis
Report Date: 24 Nov 2023

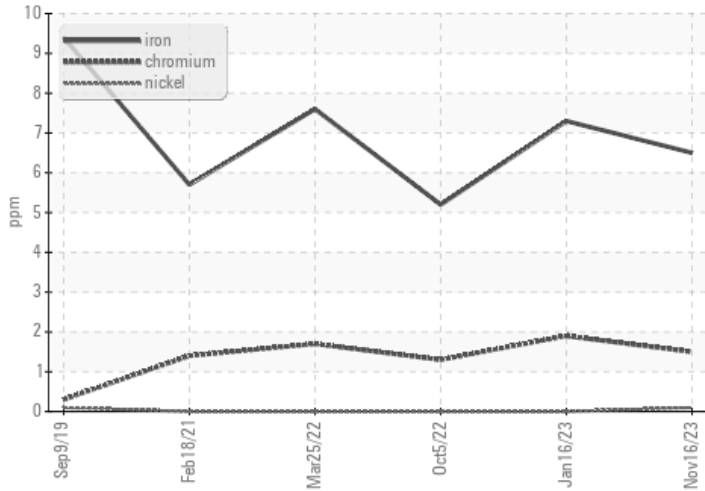


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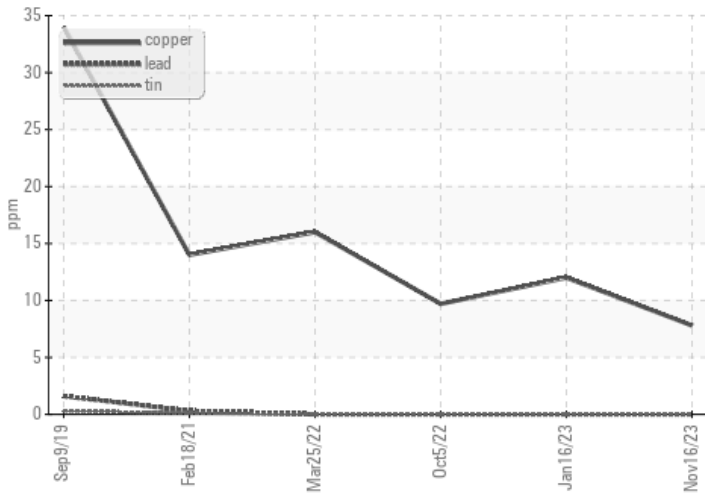


VOLVO GRAPHS

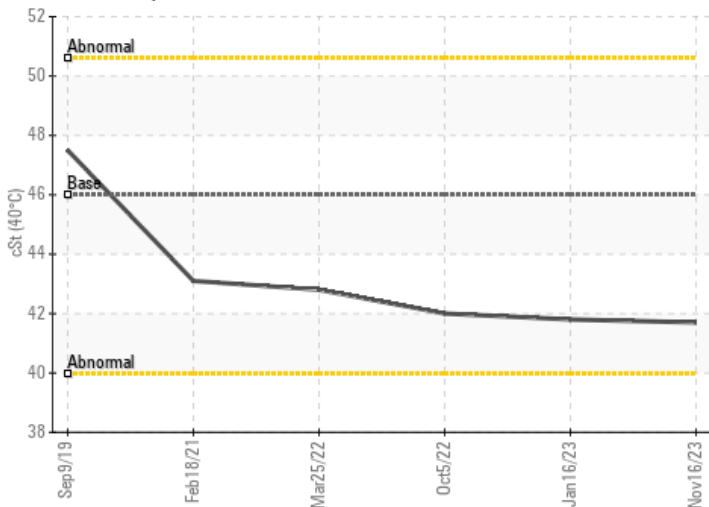
Ferrous Alloys



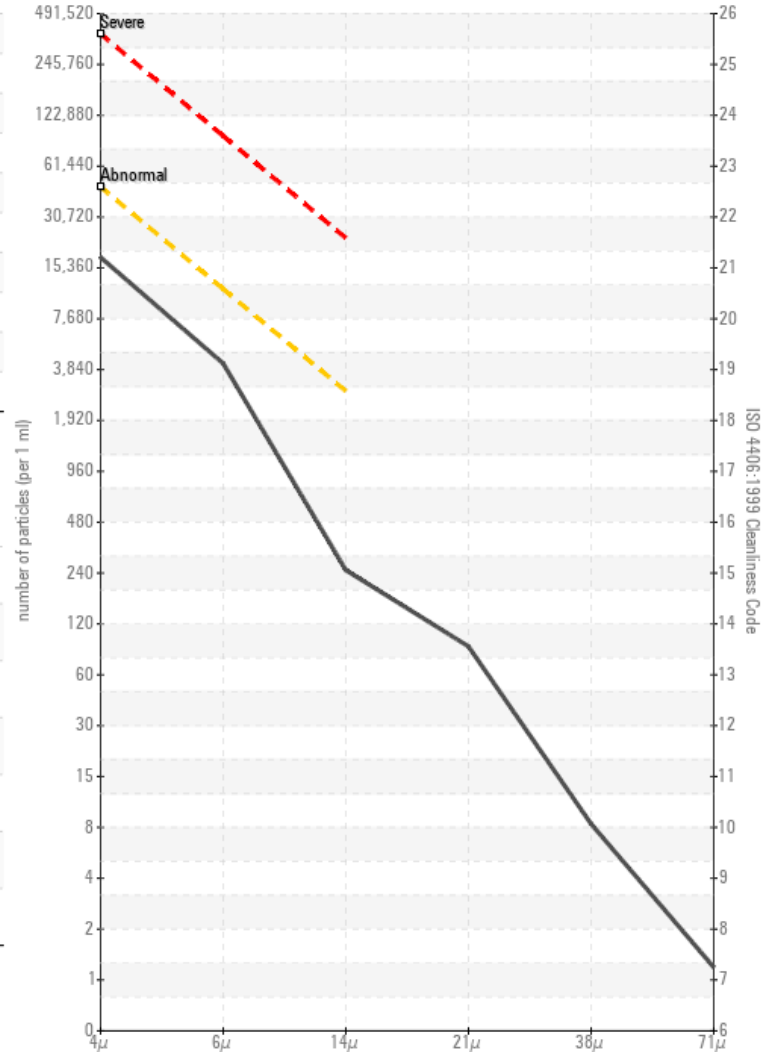
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

