



CONSTRUCTION EQUIPMENT

A11511 VOLVO A30D 74083 - HYDRAULIC SYSTEM



Sample No: VCP434278
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A11511



SAMPLE INFORMATION

Sample Number	VCP434278	VCP427224	VCP377096	VCP308428
Sample Date	20 Nov 2023	30 Jun 2023	06 May 2022	10 May 2021
Machine Hours	13990	13545	12906	12290
Oil Hours	2000	500	0	4000
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.9	43.8	43.9	44.7
Acid Number (AN)	mg KOH/g	0.38	0.37	0.47	0.428

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		67967	3395	15438	5201
Particles >6µm		20922	293	2402	721
Particles >14µm		997	11	91	39
ISO 4406:1999 (c)		23/22/17	19/15/11	21/18/14	20/17/12
Silicon	ppm	9	8	7	5
Sodium	ppm	0	2	1	0
Potassium	ppm	2	<1	0	<1

Diagnosis
We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

WEAR METALS

Iron	ppm	12	12	7	6
Copper	ppm	3	3	3	2
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	<1	1	0
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	1	<1	<1	<1
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	290	314	308	325
Magnesium	ppm	9	8	8	9
Zinc	ppm	497	557	472	489
Phosphorus	ppm	336	425	407	388
Barium	ppm	0	0	0	0
Boron	ppm	<1	0	3	3

Depot: DYEBIR
Unique No: 10764989
Signed: Wes Davis
Report Date: 30 Nov 2023

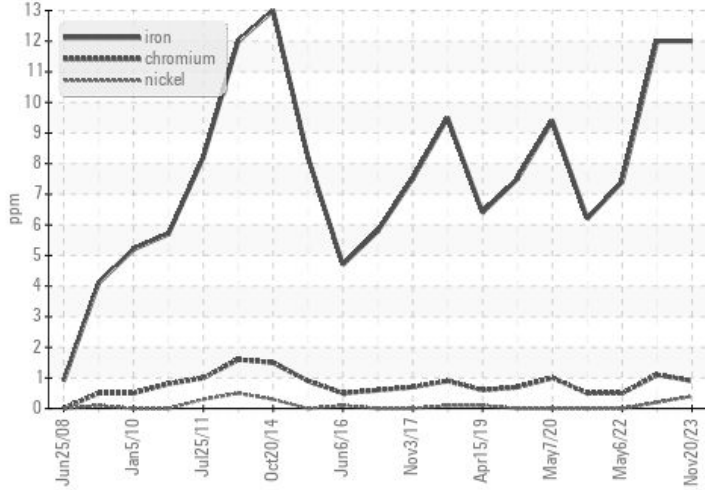


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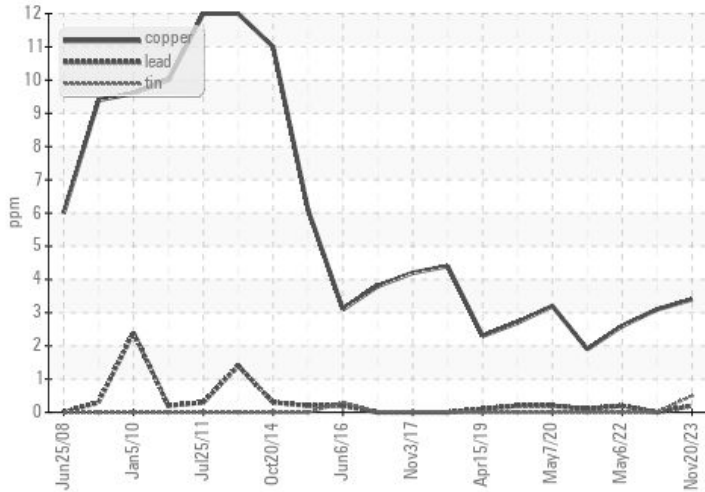


VOLVO GRAPHS

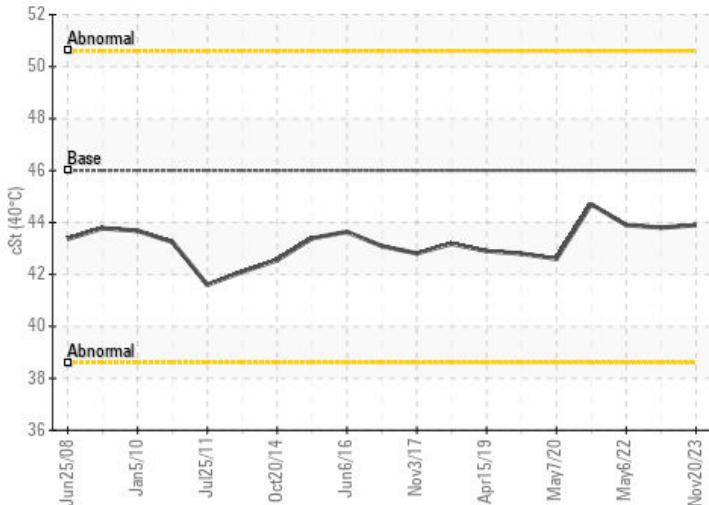
Ferrous Alloys



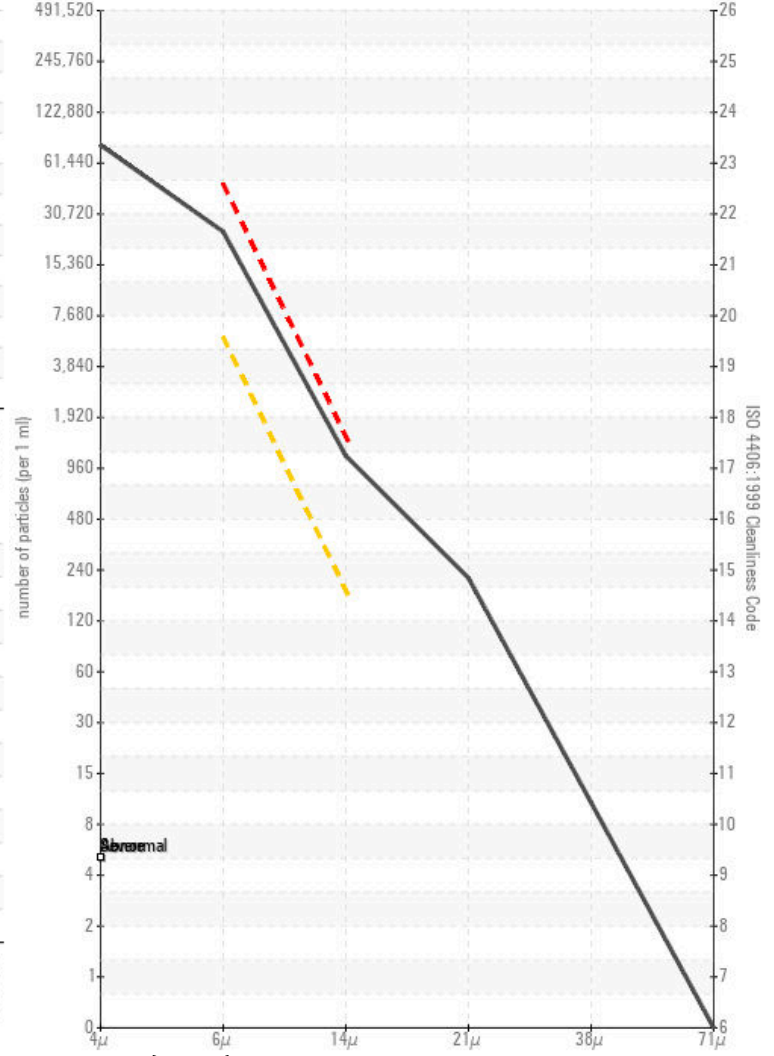
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

