



CONSTRUCTION EQUIPMENT

12046 VOLVO A35D 72314 - HYDRAULIC SYSTEM



Sample No: VCP443198
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: 12046



SAMPLE INFORMATION

Sample Number	VCP443198	VCP389232	VCP314075	VCP264187
Sample Date	06 Feb 2024	30 Sep 2022	29 Jul 2021	30 Jan 2020
Machine Hours	11246	10575	9836	8935
Oil Hours	0	2000	1500	1000
Oil Changed	N/A	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	49.1	41.5	41.8	41.7
Acid Number (AN)	mg KOH/g	0.62	0.58	0.671	0.660

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		19998	47265	34606	14825
Particles >6µm		1873	2842	907	583
Particles >14µm		117	112	28	27
ISO 4406:1999 (c)		21/18/14	23/19/14	22/17/12	21/16/12
Silicon	ppm	9	8	7	6
Sodium	ppm	0	2	2	0
Potassium	ppm	2	0	<1	<1

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	12	9	9	8
Copper	ppm	9	8	7	6
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	2	2	3	2
Chromium	ppm	3	4	3	2
Molybdenum	ppm	2	1	1	<1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	364	409	424	428
Magnesium	ppm	9	10	9	8
Zinc	ppm	679	757	721	732
Phosphorus	ppm	545	549	554	567
Barium	ppm	13	0	0	0
Boron	ppm	0	0	5	5

Depot: JAAPHI
Unique No: 10873457
Signed: Don Baldrige
Report Date: 13 Feb 2024

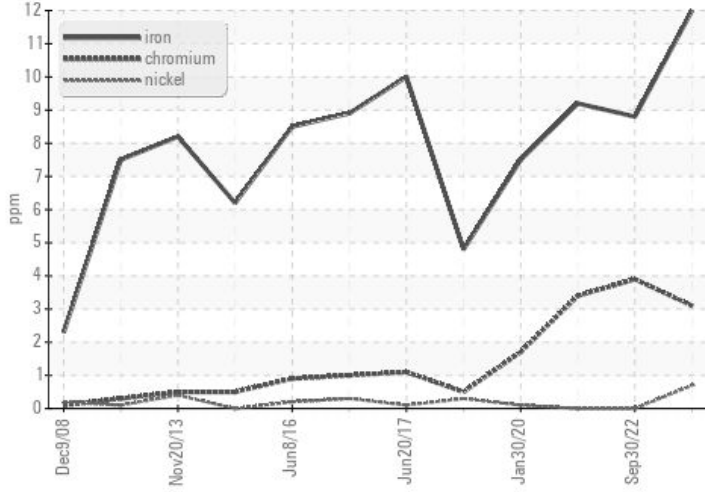


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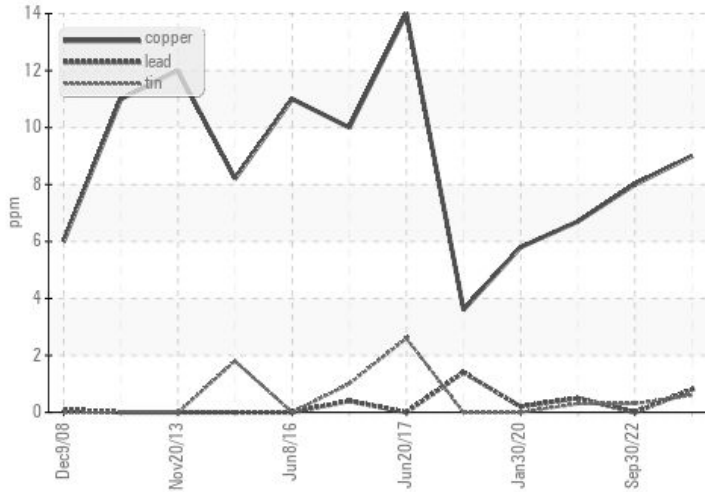


GRAPHS

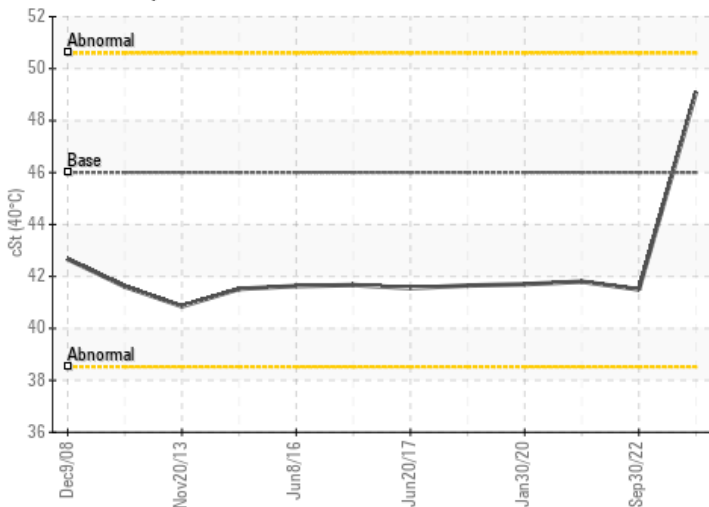
Ferrous Alloys



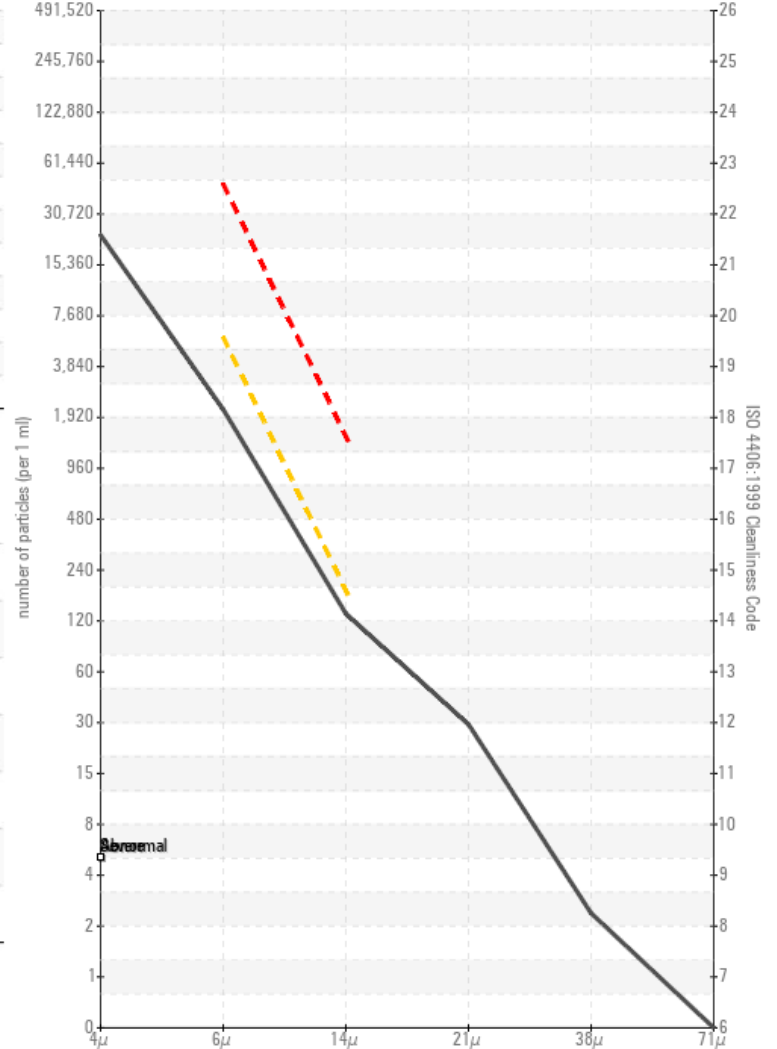
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

