



CONSTRUCTION EQUIPMENT

A10574 VOLVO A30D 74083 - HYDRAULIC SYSTEM



Sample No: VCP427224
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A10574



SAMPLE INFORMATION

Sample Number	VCP427224	VCP377096	VCP308428	VCP254476
Sample Date	30 Jun 2023	06 May 2022	10 May 2021	07 May 2020
Machine Hours	13545	12906	12290	11780
Oil Hours	500	0	4000	1000
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

DYER QUARRY
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OIL CONDITION

Visc @ 40°C	cSt	43.8	43.9	44.7	42.6
Acid Number (AN)	mg KOH/g	0.37	0.47	0.428	0.379

CONTAMINATION

Particles >4µm		3395	15438	5201	8565
Particles >6µm		293	2402	721	2146
Particles >14µm		11	91	39	189
ISO 4406:1999 (c)		19/15/11	21/18/14	20/17/12	20/18/15
Silicon	ppm	8	7	5	8
Sodium	ppm	2	1	0	<1
Potassium	ppm	<1	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	7	6	9
Copper	ppm	3	3	2	3
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	1	0	<1
Chromium	ppm	1	<1	<1	1
Molybdenum	ppm	<1	<1	<1	0
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	314	308	325	439
Magnesium	ppm	8	8	9	12
Zinc	ppm	557	472	489	545
Phosphorus	ppm	425	407	388	409
Barium	ppm	0	0	0	0
Boron	ppm	0	3	3	3

Depot: DYEBIR
Unique No: 10547937
Signed: Wes Davis
Report Date: 10 Jul 2023

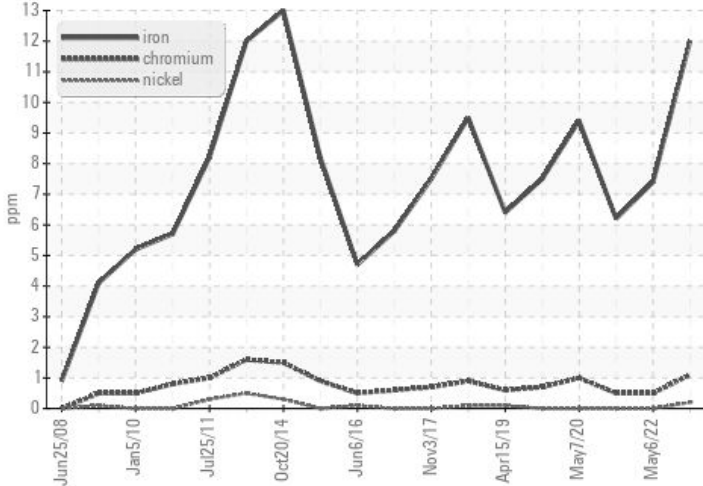


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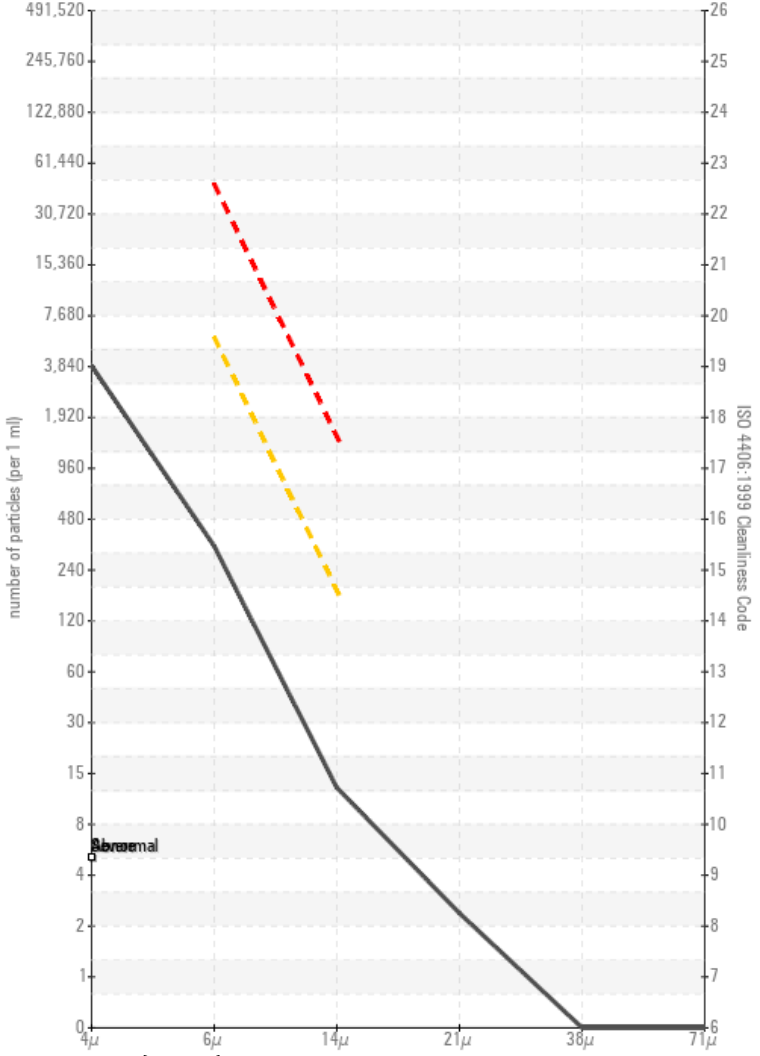


GRAPHS

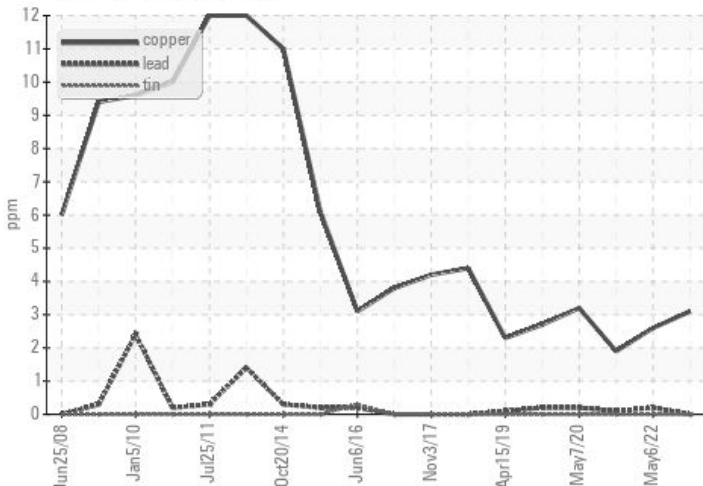
Ferrous Alloys



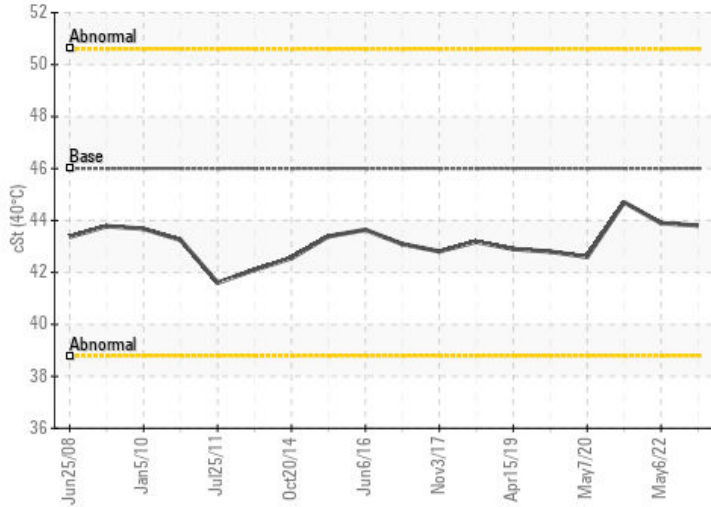
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

