



CONSTRUCTION EQUIPMENT

A12586 VOLVO A30D 74082 - HYDRAULIC SYSTEM



Sample No: VCP438191
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: A12586



SAMPLE INFORMATION

Sample Number	VCP438191	VCP425973	VCP308450	VCP264850
Sample Date	06 May 2024	27 Jun 2023	08 Jun 2021	17 Mar 2020
Machine Hours	12470	11975	10780	10120
Oil Hours	1500	500	1000	500
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

DYER QUARRY
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OIL CONDITION

Visc @ 40°C	cSt	41.3	41.3	41.6	41.4
Acid Number (AN)	mg KOH/g	0.37	0.31	0.361	0.323

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		7603	5662	5299	1017
Particles >6µm		783	845	1202	161
Particles >14µm		28	23	88	12
ISO 4406:1999 (c)		20/17/12	20/17/12	20/17/14	17/15/11
Silicon	ppm	18	20	16	17
Sodium	ppm	4	1	1	<1
Potassium	ppm	0	<1	<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	25	24	19	16
Copper	ppm	9	9	8	8
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	3	2	<1	3
Chromium	ppm	4	5	4	3
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	252	294	281	191
Magnesium	ppm	6	9	10	7
Zinc	ppm	454	494	479	459
Phosphorus	ppm	354	371	370	338
Barium	ppm	0	0	0	0
Boron	ppm	0	0	2	<1

Depot: DYEBIR
Unique No: 11032599
Signed: Wes Davis
Report Date: 17 May 2024

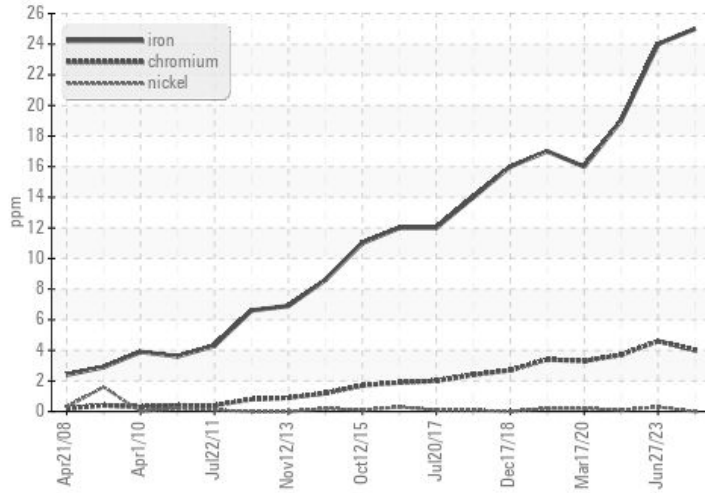


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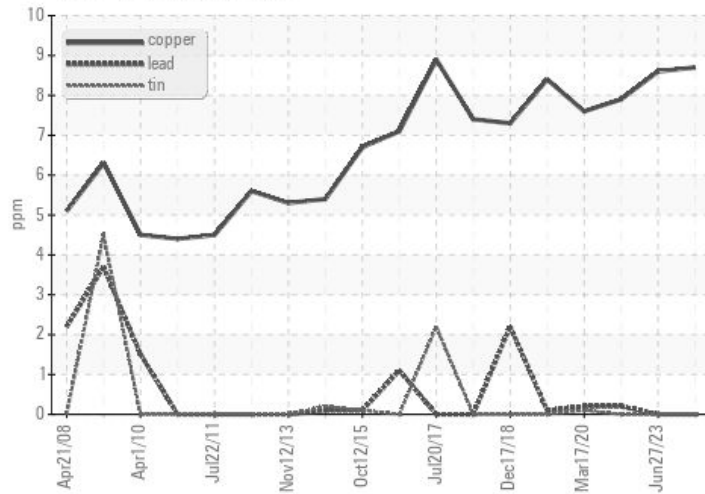


GRAPHS

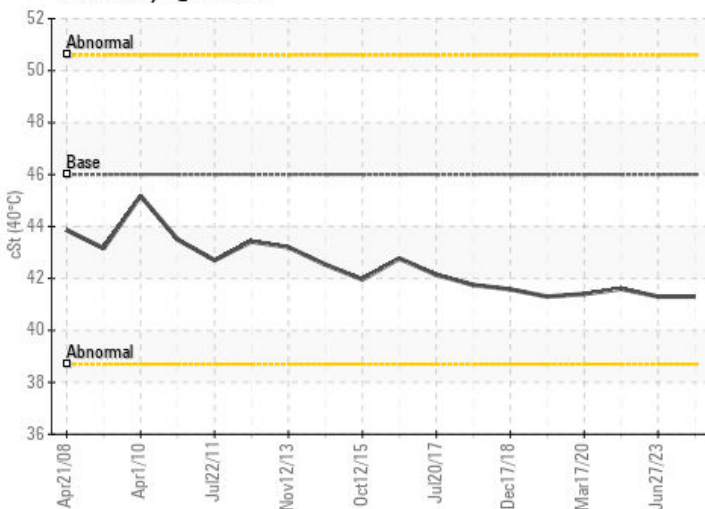
Ferrous Alloys



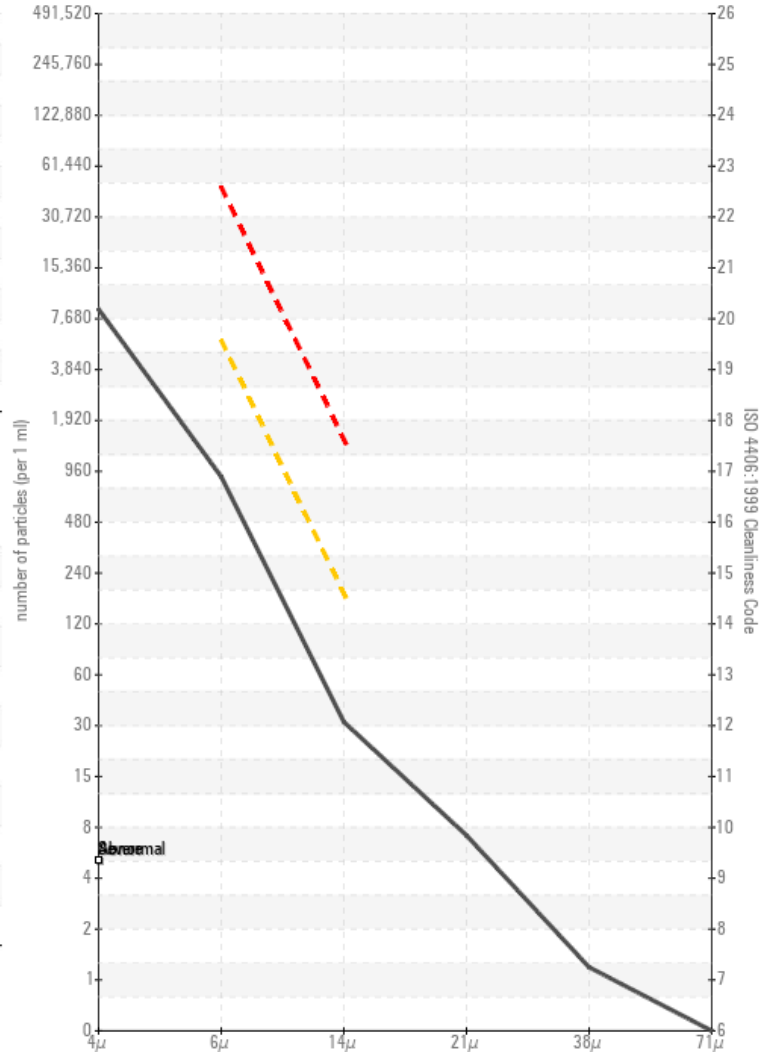
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

