



CONSTRUCTION EQUIPMENT

12058 VOLVO A30D 12117 - HYDRAULIC SYSTEM



Sample No: VCP443157
Oil Type: MOBIL HYDRAULIC OIL AW 46
Job No: 12058



SAMPLE INFORMATION

Sample Number	VCP443157	VCP363758	VCP374802	VCP284642
Sample Date	08 Feb 2024	11 Aug 2022	09 Aug 2022	10 Aug 2020
Machine Hours	12796	10465	10465	11690
Oil Hours	0	4000	4000	1500
Oil Changed	N/A	Changed	Changed	Not Changd
Sample Status	NORMAL	ATTENTION	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.9	42.7	42.6	43.3
Acid Number (AN)	mg KOH/g	0.42	0.42	0.33	0.493

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		7454	38177	24244	4315
Particles >6µm		366	6014	4649	847
Particles >14µm		20	252	215	40
ISO 4406:1999 (c)		20/16/11	22/20/15	22/19/15	19/17/12
Silicon	ppm	8	8	13	7
Sodium	ppm	3	3	1	2
Potassium	ppm	0	0	0	5

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	4	6	8	6
Copper	ppm	12	13	4	8
Lead	ppm	0	<1	0	2
Tin	ppm	0	<1	0	0
Aluminum	ppm	1	2	2	<1
Chromium	ppm	1	1	<1	1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	403	415	99	419
Magnesium	ppm	23	22	12	23
Zinc	ppm	593	538	460	532
Phosphorus	ppm	458	450	358	420
Barium	ppm	0	0	2	<1
Boron	ppm	8	11	0	8

Depot: JAAPHI
Unique No: 10876156
Signed: Wes Davis
Report Date: 15 Feb 2024

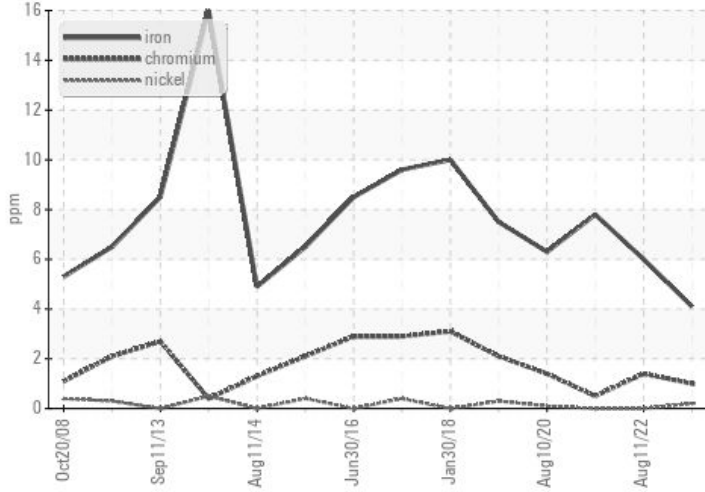


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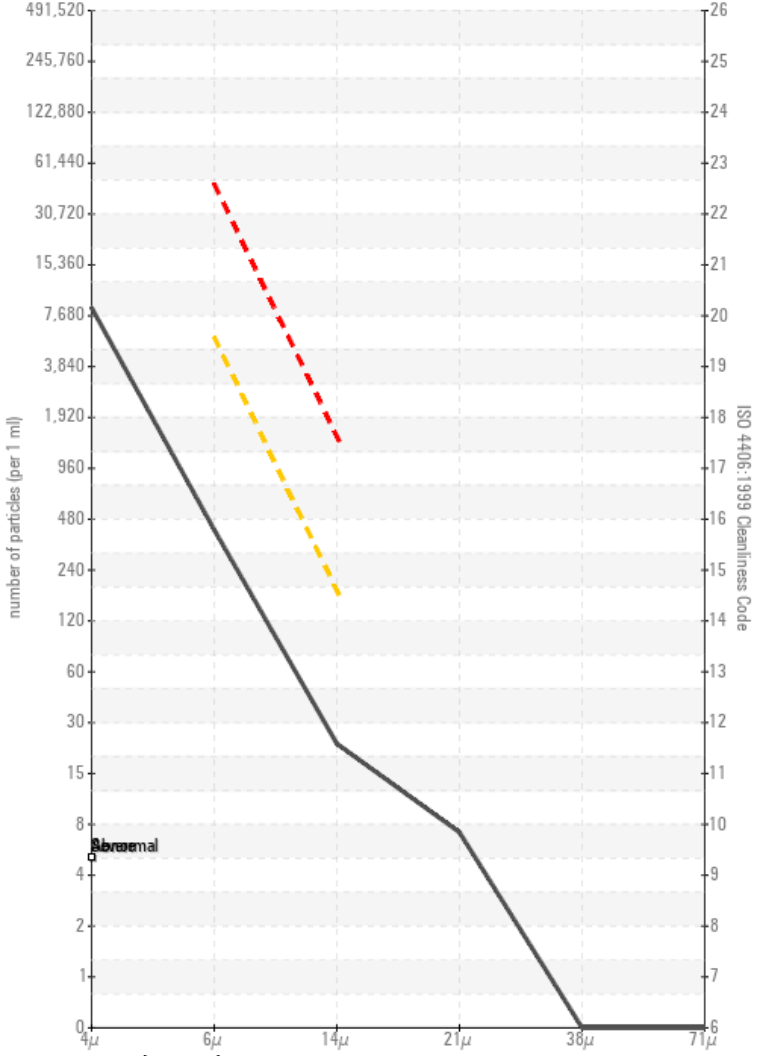


VOLVO GRAPHS

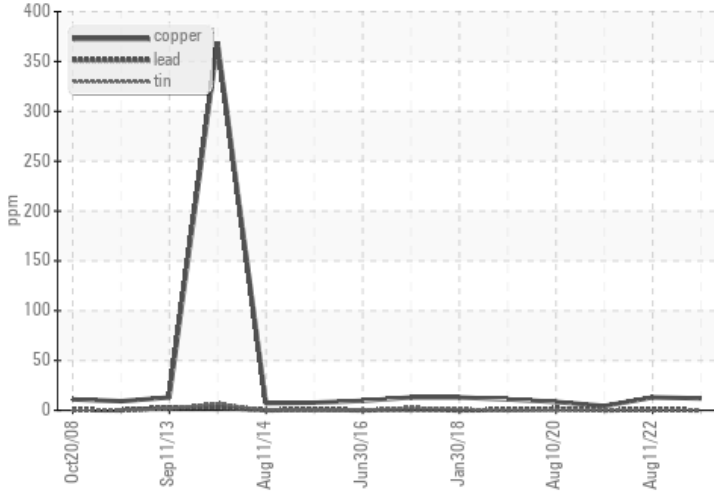
Ferrous Alloys



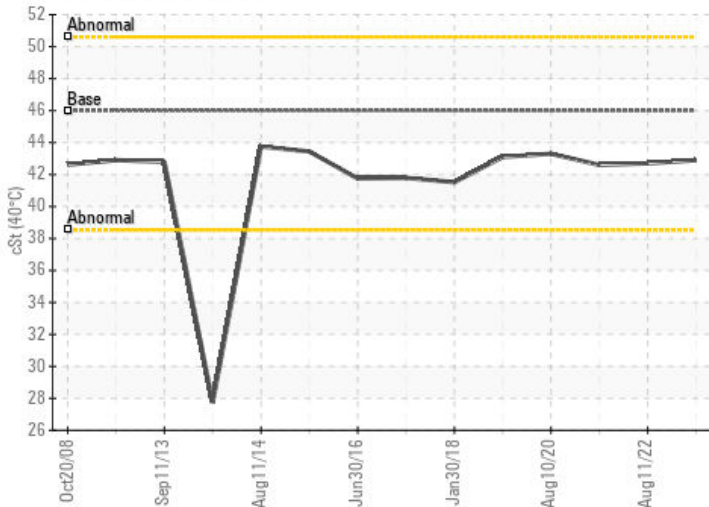
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

