



CONSTRUCTION EQUIPMENT

VOLVO A45G 352071 - HYDRAULIC SYSTEM



Sample No: VCP427479
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP427479	VCP413109	VCP382590	VCP397722
Sample Date	09 Oct 2023	12 Jul 2023	12 Apr 2023	09 Dec 2022
Machine Hours	7028	6523	6049	5545
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.0	43.2	44.8	43.3
Acid Number (AN)	mg KOH/g	0.75	0.38	0.44	0.615

CONTAMINATION

Particles >4µm		17267	1229	4721	1056
Particles >6µm		6929	104	995	168
Particles >14µm		821	8	52	15
ISO 4406:1999 (c)		21/20/17	17/14/10	19/17/13	17/15/11
Silicon	ppm	4	4	3	4
Sodium	ppm	2	0	1	0
Potassium	ppm	2	<1	0	1

Diagnosis
 We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

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

ADDITIVES

Calcium	ppm	91	86	99	88
Magnesium	ppm	249	10	15	8
Zinc	ppm	798	461	532	447
Phosphorus	ppm	616	346	394	331
Barium	ppm	0	2	0	0
Boron	ppm	<1	0	0	<1

Depot: SAIBIR
Unique No: 10709069
Signed: Don Baldrige
Report Date: 25 Oct 2023

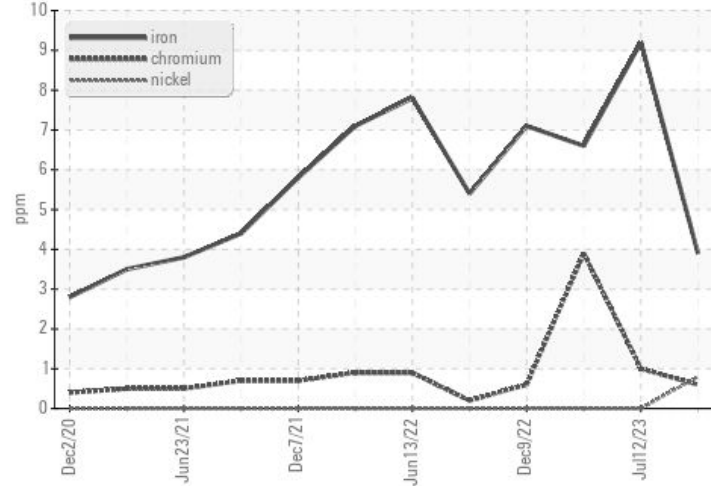


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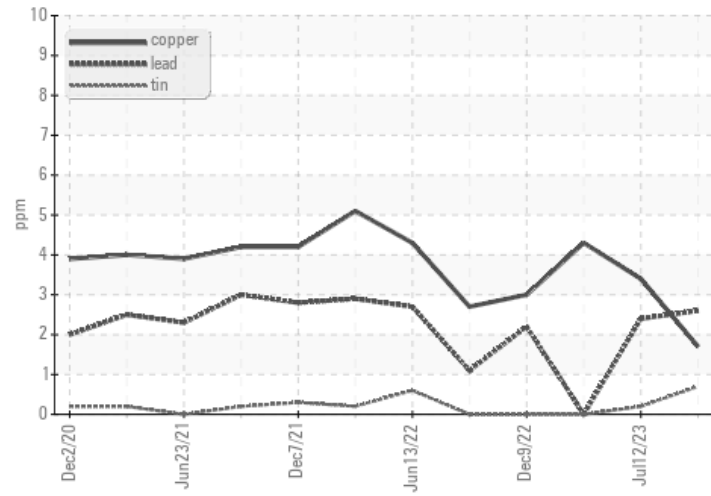


GRAPHS

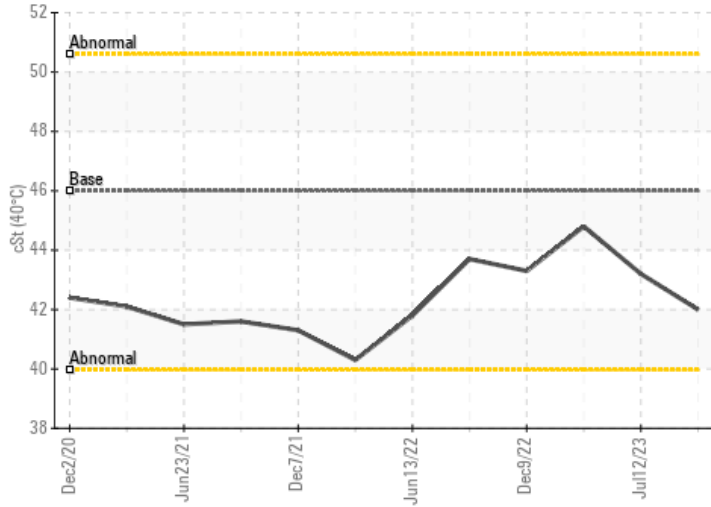
Ferrous Alloys



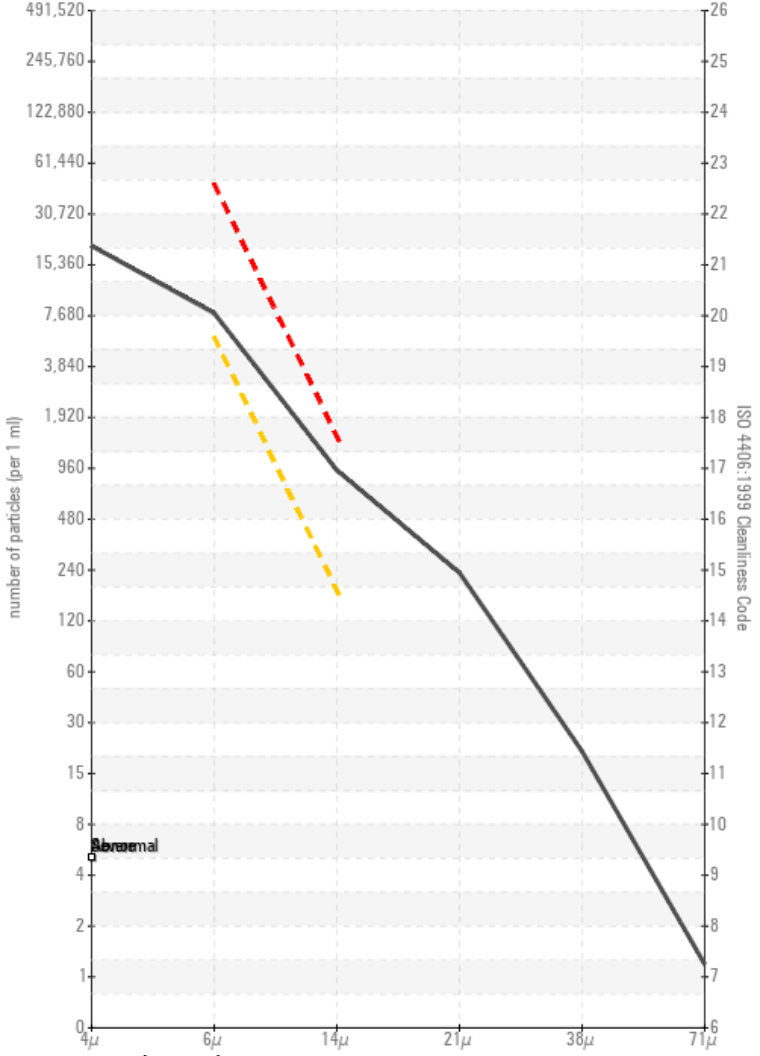
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

