



CONSTRUCTION EQUIPMENT

SWO-066609 VOLVO A45G 352916 - HYDRAULIC SYSTEM



Sample No: VCP435120
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-066609



SAMPLE INFORMATION

Sample Number	VCP435120	VCP419137	VCP404638	VCP403265
Sample Date	11 Oct 2023	25 Jul 2023	04 May 2023	24 Jan 2023
Machine Hours	3517	3005	2493	1980
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.4	43.2	42.1	43.3
Acid Number (AN)	mg KOH/g	0.40	0.39	0.35	0.33



CONTAMINATION

Particles >4µm		1341	3198	1944	2150
Particles >6µm		233	912	382	473
Particles >14µm		17	44	27	34
ISO 4406:1999 (c)		18/15/11	19/17/13	18/16/12	18/16/12
Silicon	ppm	6	5	4	5
Sodium	ppm	<1	0	<1	0
Potassium	ppm	0	0	0	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	7	6	2	4
Copper	ppm	4	3	3	2
Lead	ppm	2	3	2	2
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	<1	<1	0
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	56	61	71	58
Magnesium	ppm	0	<1	0	<1
Zinc	ppm	438	448	472	462
Phosphorus	ppm	318	338	362	337
Barium	ppm	0	2	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10698468
Signed: Don Baldrige
Report Date: 19 Oct 2023

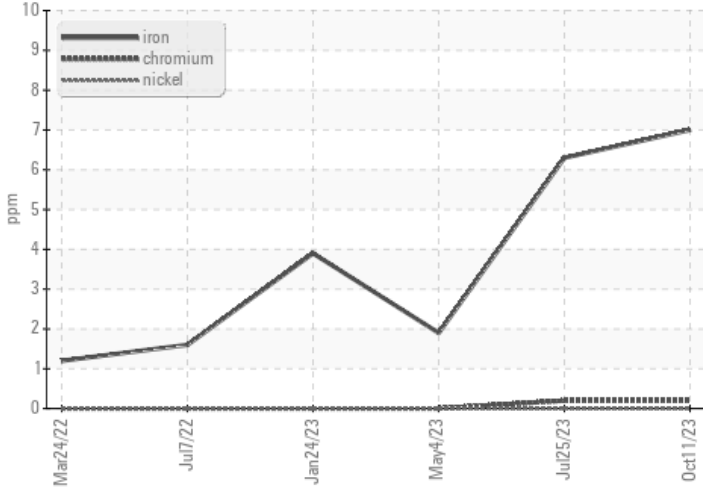


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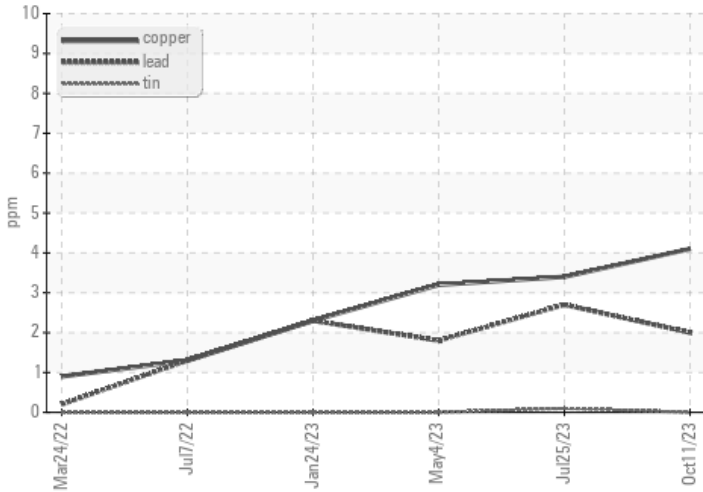


GRAPHS

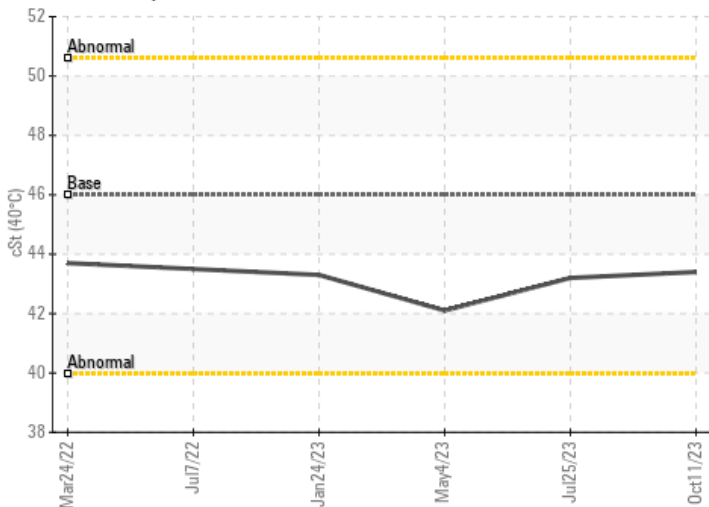
Ferrous Alloys



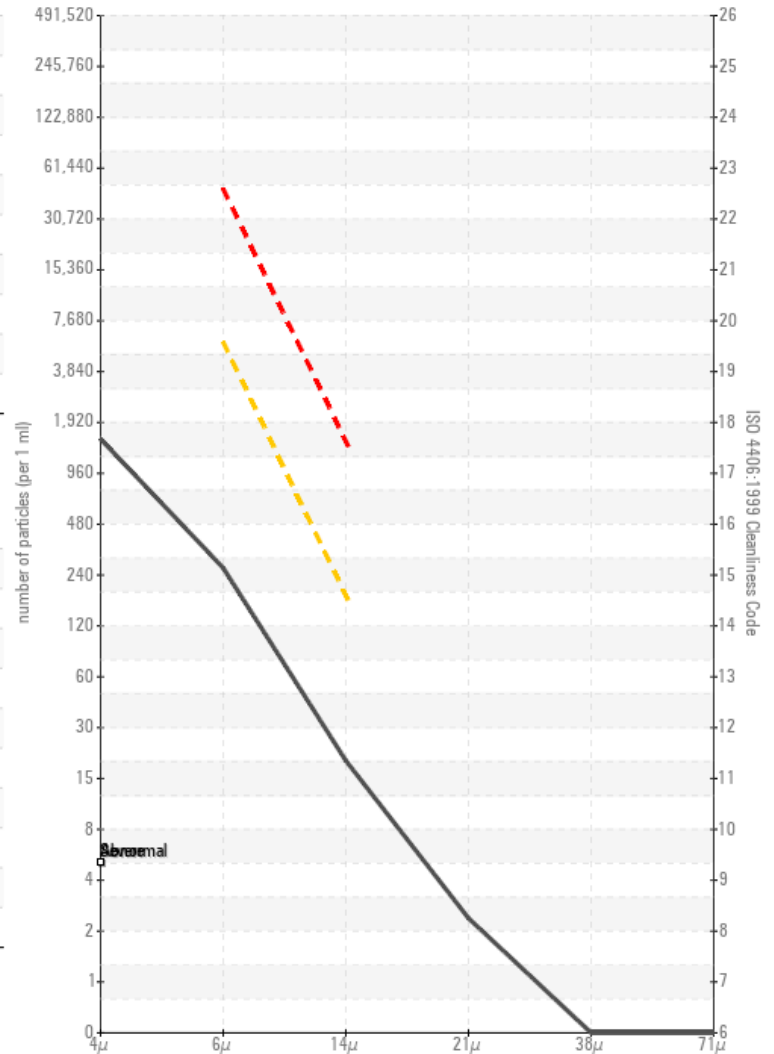
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

