



CONSTRUCTION EQUIPMENT

SWO-064940 VOLVO A60 340104 - HYDRAULIC SYSTEM



Sample No: VCP411753
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-064940



SAMPLE INFORMATION

Sample Number	VCP411753	VCP406455	VCP364035	VCP366680
Sample Date	24 Aug 2023	17 Apr 2023	08 Nov 2022	25 Aug 2022
Machine Hours	8689	8086	7528	6996
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.0	41.3	40.9	41.6
Acid Number (AN)	mg KOH/g	0.43	0.50	0.43	0.56



CONTAMINATION

Particles >4µm	2530	487	990	3806	
Particles >6µm	663	130	187	928	
Particles >14µm	25	24	16	80	
ISO 4406:1999 (c)	19/17/12	16/14/12	17/15/11	19/17/13	
Silicon	ppm	5	6	6	5
Sodium	ppm	<1	2	2	2
Potassium	ppm	1	0	0	0

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	4	7	5	5
Copper	ppm	2	4	5	3
Lead	ppm	<1	0	<1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	3	2	1	1
Chromium	ppm	1	2	2	2
Molybdenum	ppm	2	3	3	3
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	142	139	164	140
Magnesium	ppm	22	28	26	26
Zinc	ppm	496	466	493	489
Phosphorus	ppm	397	374	412	395
Barium	ppm	0	0	0	<1
Boron	ppm	<1	2	2	0

Depot: SAIBIR
Unique No: 10630295
Signed: Don Baldrige
Report Date: 05 Sep 2023

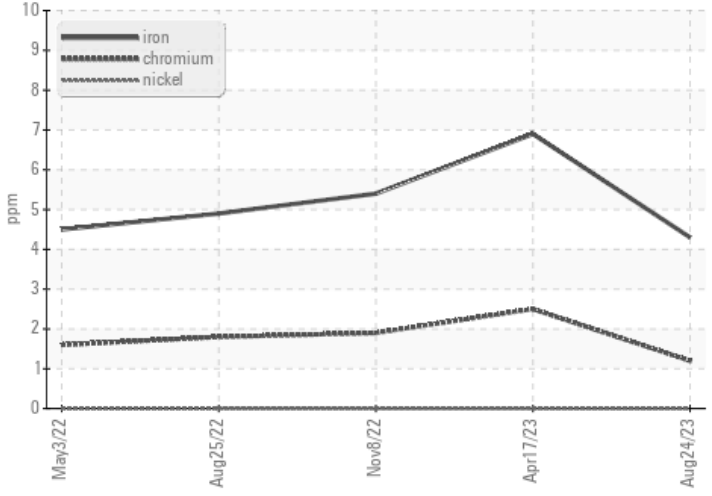


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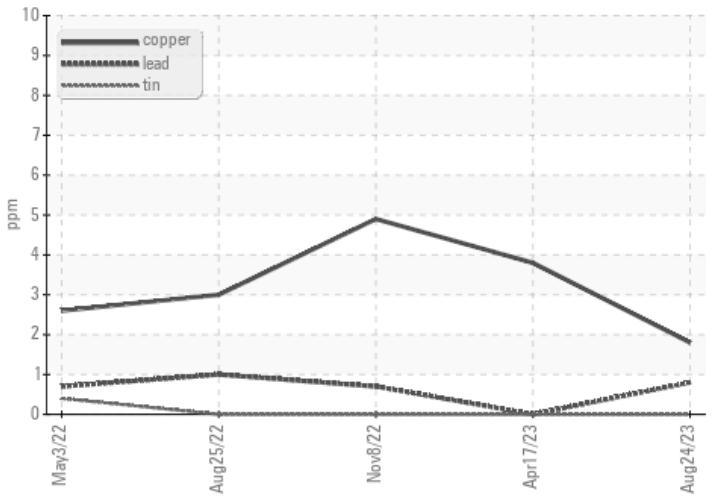


GRAPHS

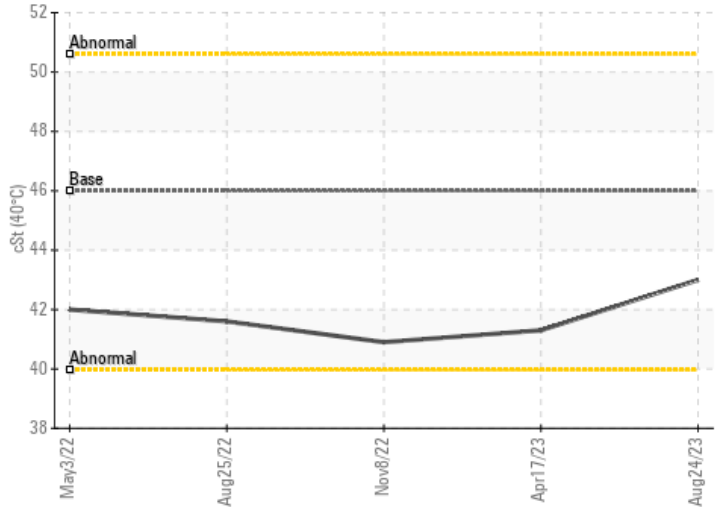
Ferrous Alloys



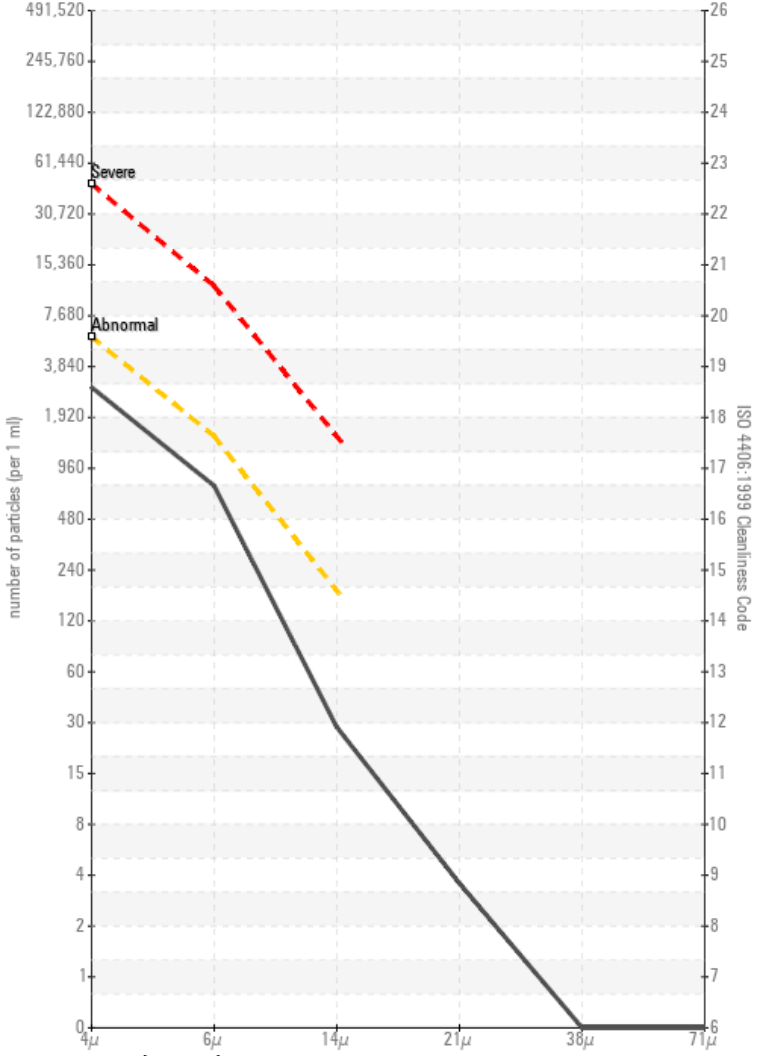
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

