



CONSTRUCTION EQUIPMENT

SWO-071394 VOLVO A60H 350187 - HYDRAULIC SYSTEM



Sample No: VCP452744
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-071394



SAMPLE INFORMATION

Sample Number	VCP452744	VCP404633	VCP433458	VCP402249
Sample Date	29 Apr 2024	11 Jan 2024	06 Sep 2023	28 Feb 2023
Machine Hours	3015	2513	2021	1556
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	45.3	45.7	46.3	48.5
Acid Number (AN)	mg KOH/g	0.54	0.54	0.46	0.42



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		▲ 48223	■ 1971	● 6228	■ 2321
Particles >6µm		▲ 19042	■ 195	■ 982	■ 357
Particles >14µm		▲ 1803	■ 15	■ 31	■ 24
ISO 4406:1999 (c)		23/21/18	18/15/11	20/17/12	18/16/12
Silicon	ppm	■ 3	■ 3	■ 4	■ 3
Sodium	ppm	■ 1	■ 0	■ 2	■ 0
Potassium	ppm	■ 0	■ 2	■ <1	■ <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	■ 7	■ 7	■ 5	■ 3
Copper	ppm	■ <1	■ 2	■ 2	■ 2
Lead	ppm	■ 0	■ 2	■ <1	■ 1
Tin	ppm	■ 0	■ 1	■ <1	■ <1
Aluminum	ppm	■ 0	■ 2	■ 0	■ <1
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ <1	■ 3	■ <1	■ <1
Nickel	ppm	■ 0	■ <1	■ 0	■ 0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	■ 0	■ <1	■ <1	■ 0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	■ 151	■ 120	■ 130	■ 65
Magnesium	ppm	■ 55	■ 66	■ 43	■ 2
Zinc	ppm	■ 522	■ 588	■ 526	■ 483
Phosphorus	ppm	■ 417	■ 428	■ 403	■ 324
Barium	ppm	■ 0	■ <1	■ 0	■ <1
Boron	ppm	■ 0	■ <1	■ 1	■ 0

Depot: SAIBIR
Unique No: 11009033
Signed: Don Baldrige
Report Date: 07 May 2024

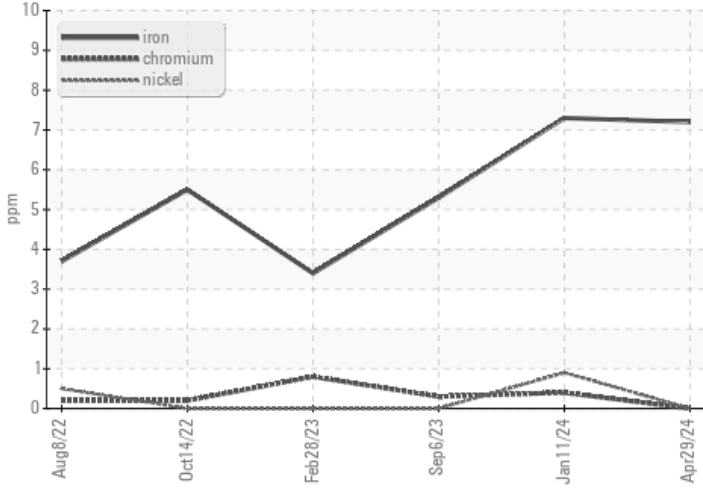


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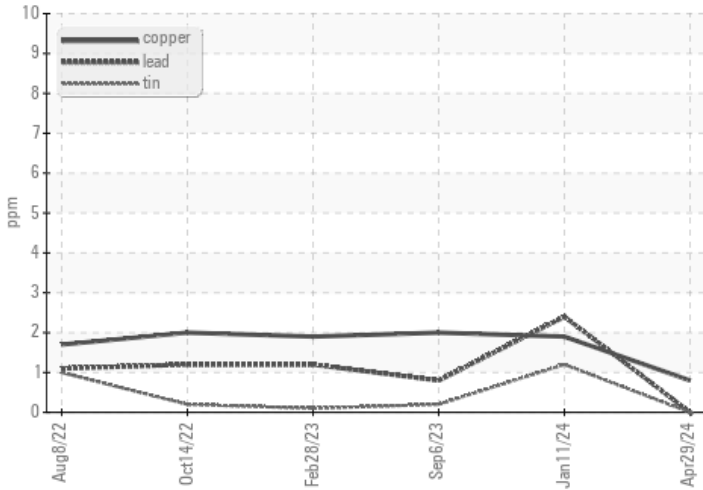


VOLVO GRAPHS

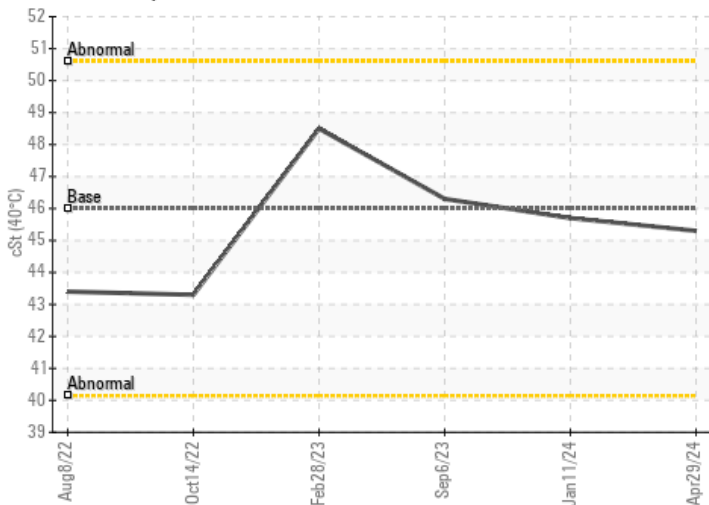
Ferrous Alloys



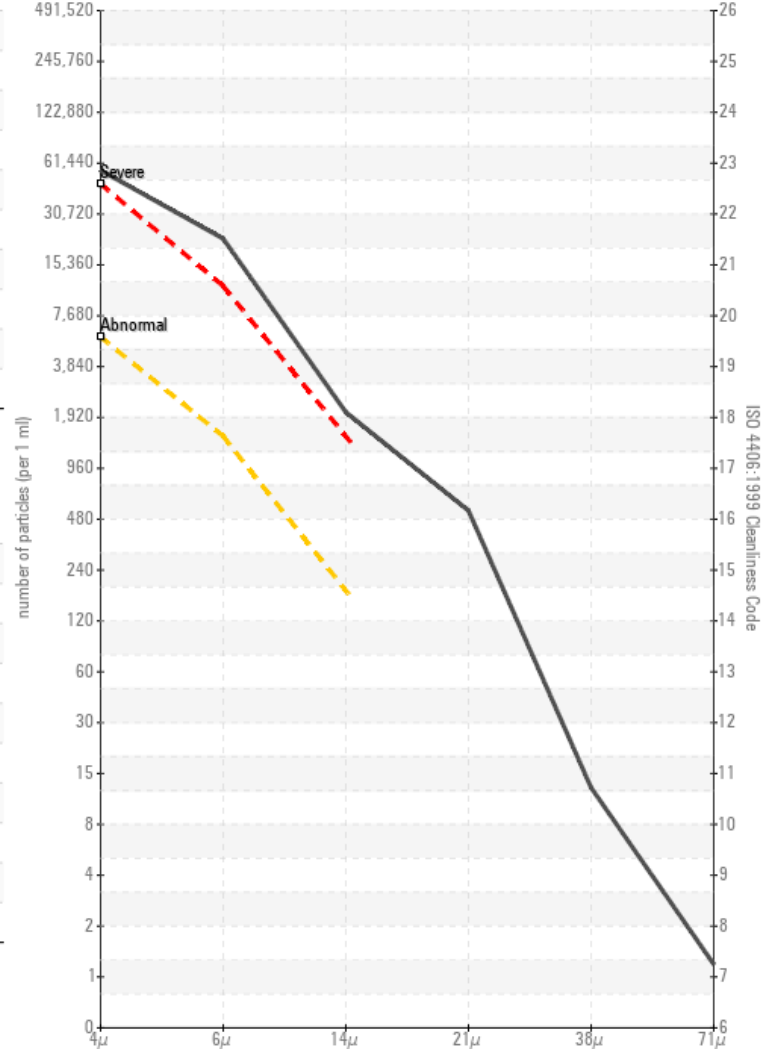
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

