



CONSTRUCTION EQUIPMENT

SWO-069193 VOLVO A60H A60H 340102 - HYDRAULIC SYSTEM



Sample No: VCP446977
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-069193



SAMPLE INFORMATION

Sample Number	VCP446977	VCP431906	VCP404936	VCP419721
Sample Date	01 Feb 2024	28 Sep 2023	11 Jul 2023	30 Mar 2023
Machine Hours	9767	9302	8821	8292
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	40.1	40.3	40.5	40.9
Acid Number (AN)	mg KOH/g	0.48	0.46	0.46	0.47



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		686	77788	---	345
Particles >6µm		149	29960	---	121
Particles >14µm		7	2194	---	13
ISO 4406:1999 (c)		17/14/10	23/22/18	---	16/14/11
Silicon	ppm	3	4	3	4
Sodium	ppm	2	<1	2	0
Potassium	ppm	2	1	<1	<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	9	11	9	6
Copper	ppm	4	3	2	2
Lead	ppm	2	1	<1	<1
Tin	ppm	<1	<1	0	0
Aluminum	ppm	2	0	0	<1
Chromium	ppm	<1	1	<1	<1
Molybdenum	ppm	2	2	2	2
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	<1	0



ADDITIVES

Calcium	ppm	93	93	100	94
Magnesium	ppm	72	11	12	9
Zinc	ppm	570	482	492	495
Phosphorus	ppm	460	362	397	382
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10863388
Signed: Don Baldrige
Report Date: 08 Feb 2024

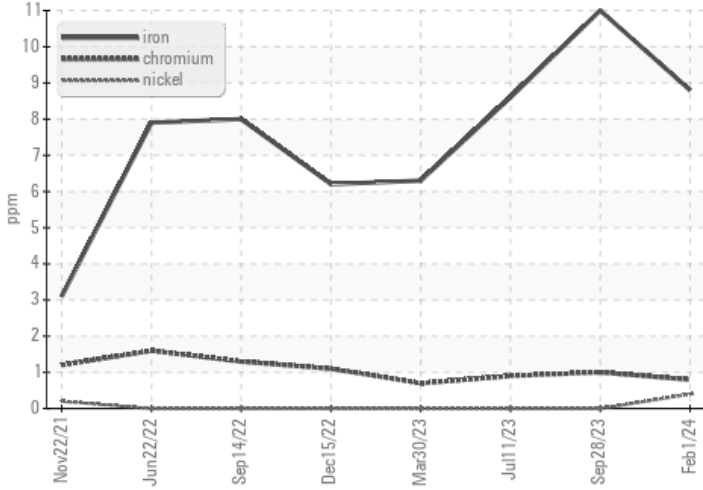


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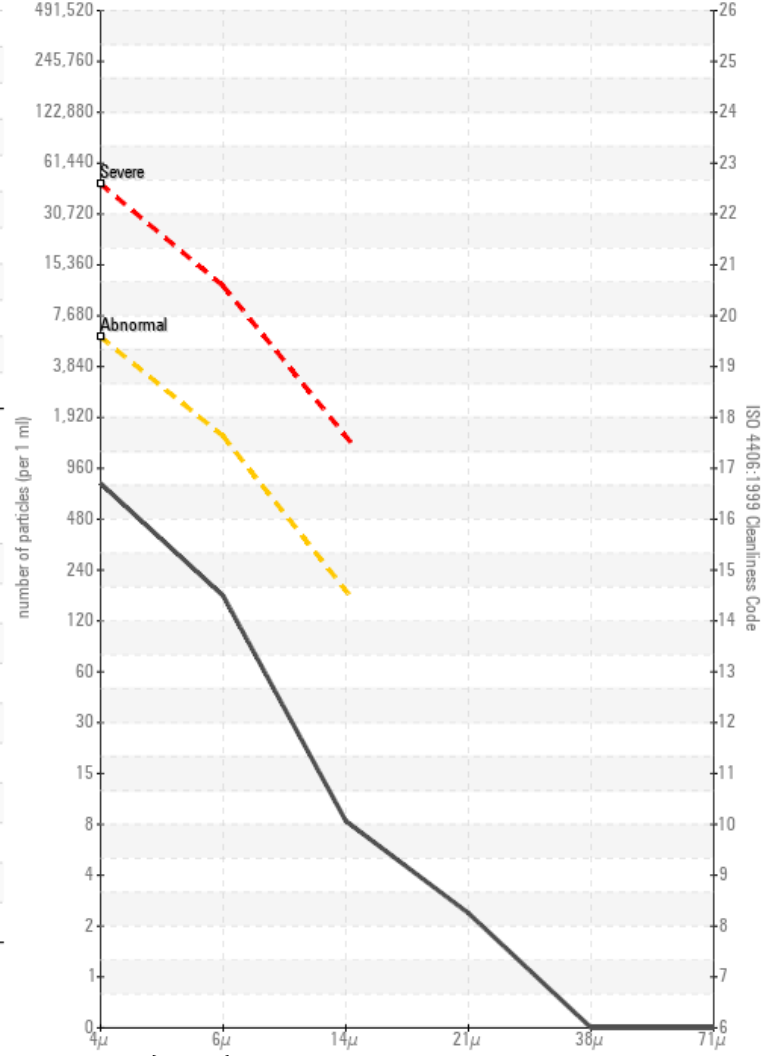


VOLVO GRAPHS

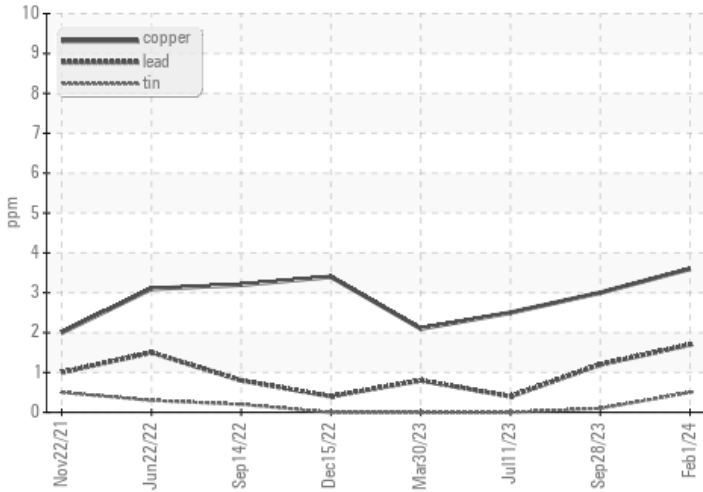
Ferrous Alloys



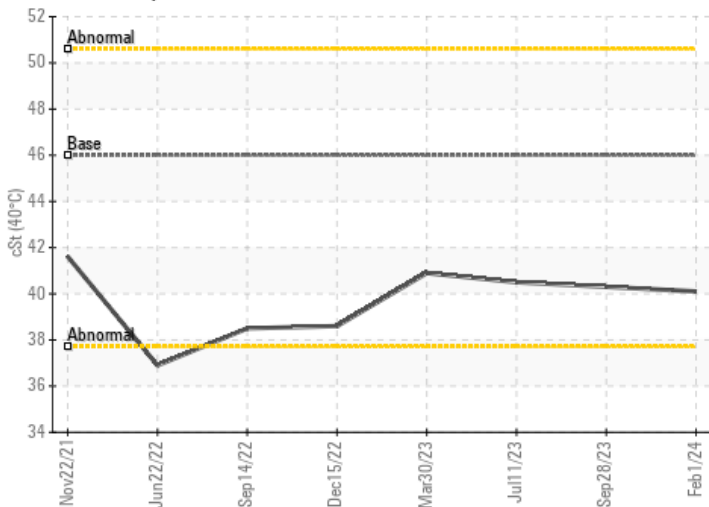
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

