



CONSTRUCTION EQUIPMENT

VOLVO A60H 350187 - HYDRAULIC SYSTEM



Sample No: VCP404633
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP404633	VCP433458	VCP402249	VCP384150
Sample Date	11 Jan 2024	06 Sep 2023	28 Feb 2023	14 Oct 2022
Machine Hours	2513	2021	1556	1098
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	45.7	46.3	48.5	43.3
Acid Number (AN)	mg KOH/g	0.54	0.46	0.42	0.39



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1971	6228	2321	2358
Particles >6µm		195	982	357	213
Particles >14µm		15	31	24	15
ISO 4406:1999 (c)		18/15/11	20/17/12	18/16/12	18/15/11
Silicon	ppm	3	4	3	6
Sodium	ppm	0	2	0	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	7	5	3	6
Copper	ppm	2	2	2	2
Lead	ppm	2	<1	1	1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	2	0	<1	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	3	<1	<1	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	120	130	65	54
Magnesium	ppm	66	43	2	1
Zinc	ppm	588	526	483	424
Phosphorus	ppm	428	403	324	314
Barium	ppm	<1	0	<1	1
Boron	ppm	<1	1	0	0

Depot: SAIBIR
Unique No: 10845003
Signed: Don Baldrige
Report Date: 25 Jan 2024

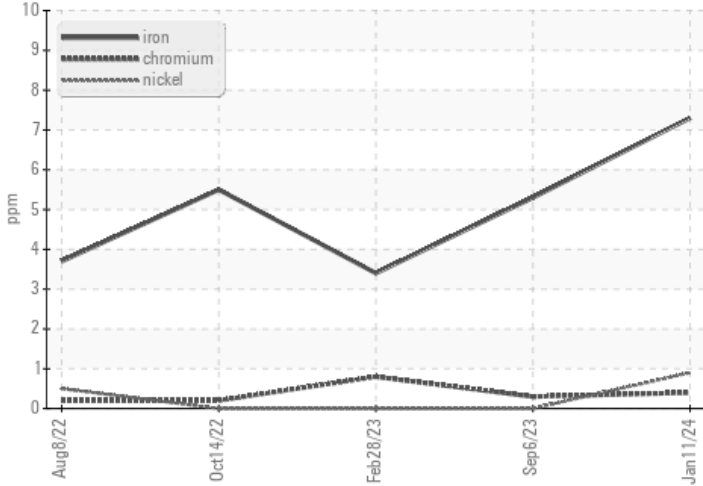


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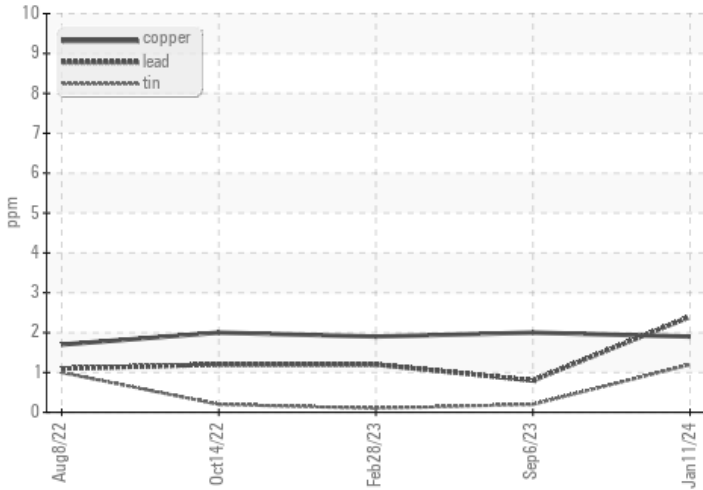


GRAPHS

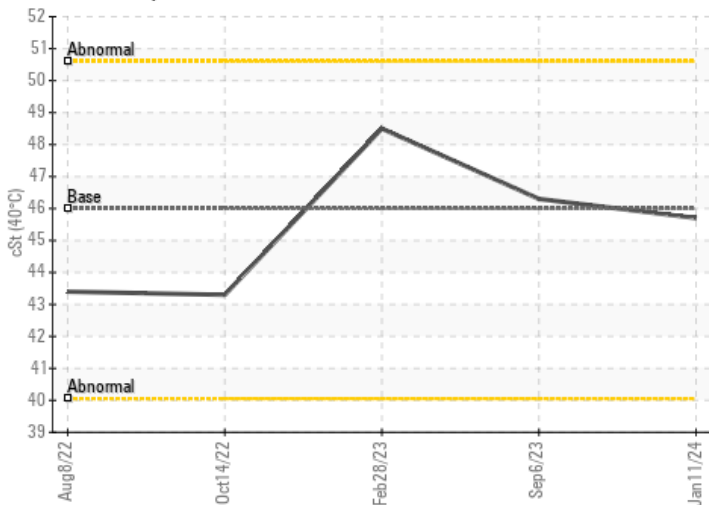
Ferrous Alloys



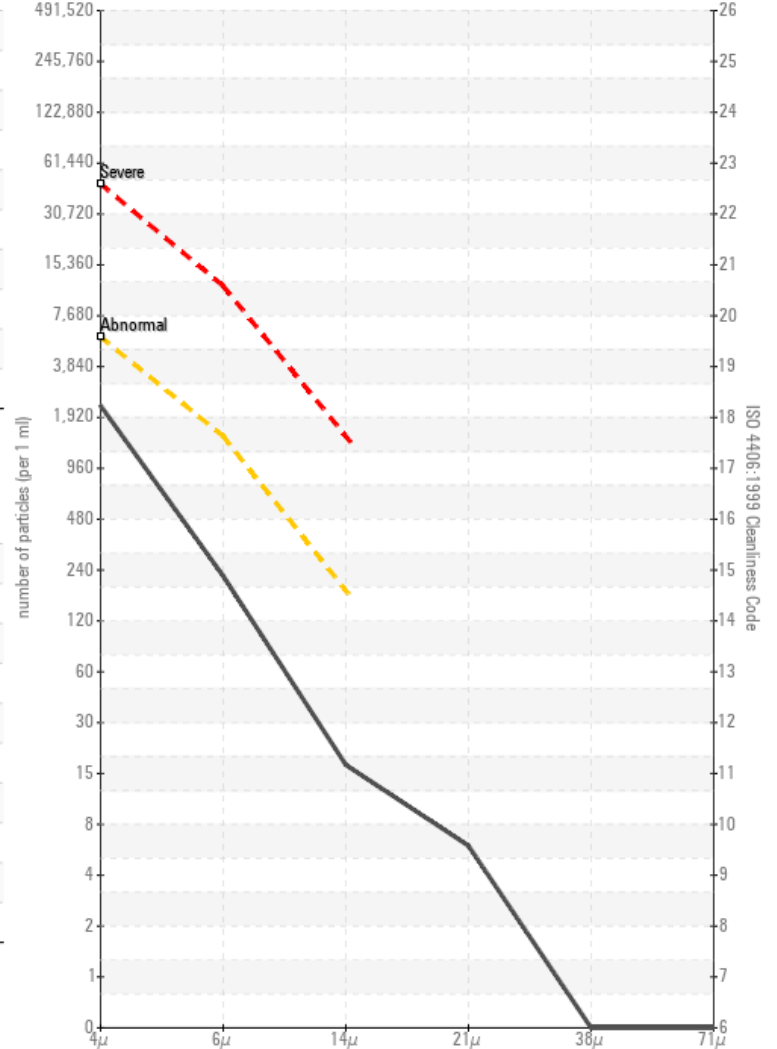
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

