



CONSTRUCTION EQUIPMENT

VOLVO A60H 350022 - HYDRAULIC SYSTEM



Sample No: VCP450823
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP450823	VCP431034	VCP405788	VCP402625
Sample Date	06 Jun 2024	23 Jan 2024	27 Sep 2023	01 May 2023
Machine Hours	8426	7905	7399	6905
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.4	43.9	43.5	44.3
Acid Number (AN)	mg KOH/g	0.36	0.39	0.29	0.34



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1503	5861	1266	1249
Particles >6µm		272	1241	355	306
Particles >14µm		13	75	33	26
ISO 4406:1999 (c)		18/15/11	20/17/13	17/16/12	17/15/12
Silicon	ppm	2	3	3	2
Sodium	ppm	0	<1	2	2
Potassium	ppm	1	<1	<1	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	10	13	12	10
Copper	ppm	2	3	3	4
Lead	ppm	1	1	2	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	2	2	0
Chromium	ppm	1	2	2	1
Molybdenum	ppm	5	3	3	3
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	126	93	106	90
Magnesium	ppm	25	13	13	14
Zinc	ppm	561	454	464	455
Phosphorus	ppm	399	329	338	351
Barium	ppm	0	0	0	0
Boron	ppm	2	<1	<1	2

Depot: SAIBIR
Unique No: 11075181
Signed: Don Baldrige
Report Date: 14 Jun 2024

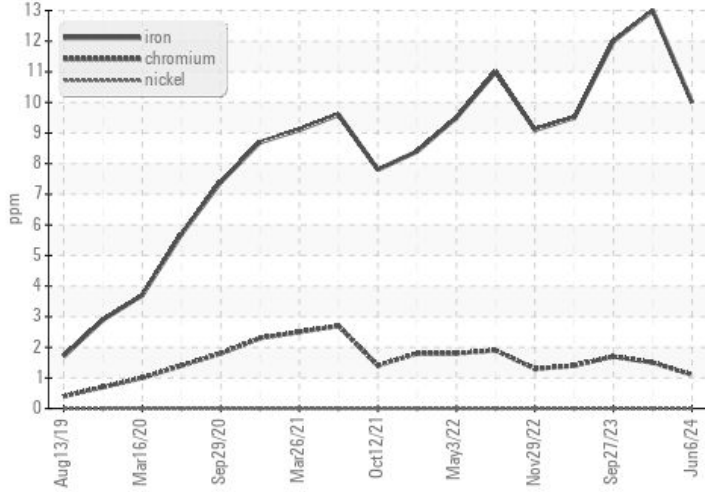


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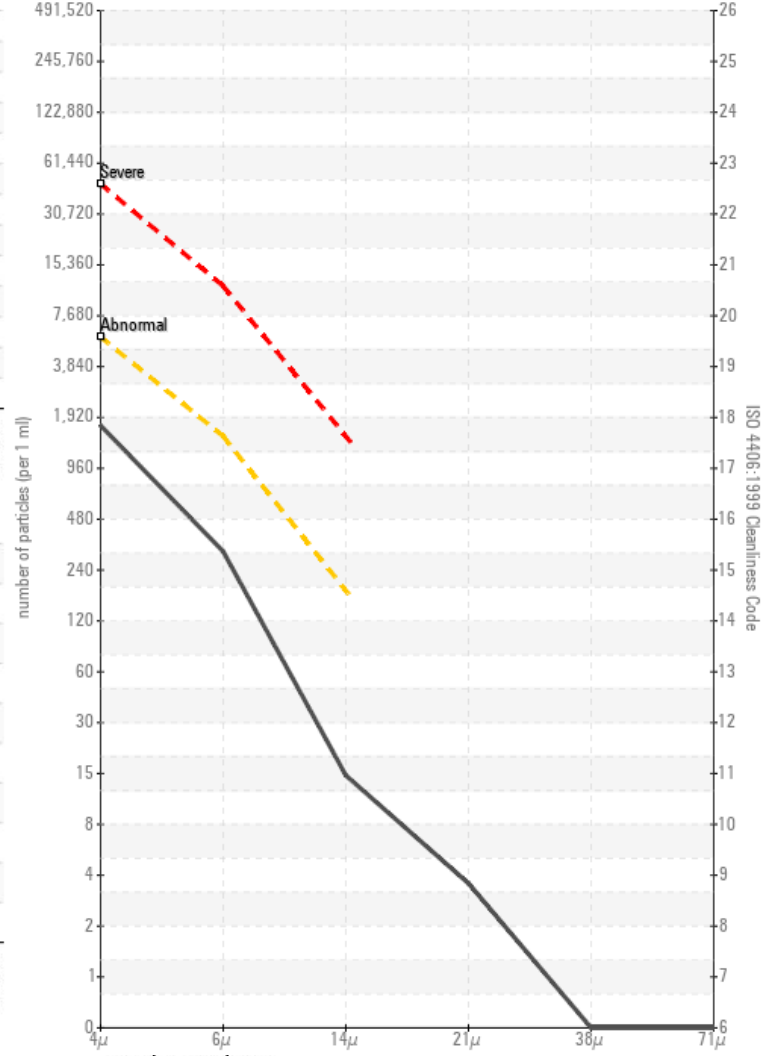


GRAPHS

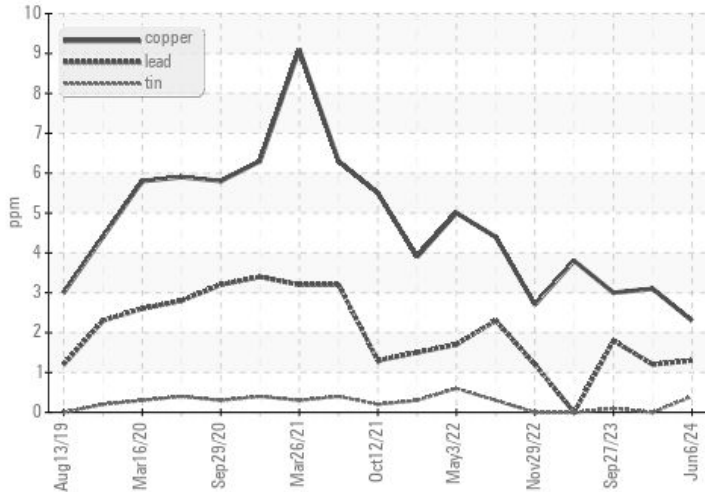
Ferrous Alloys



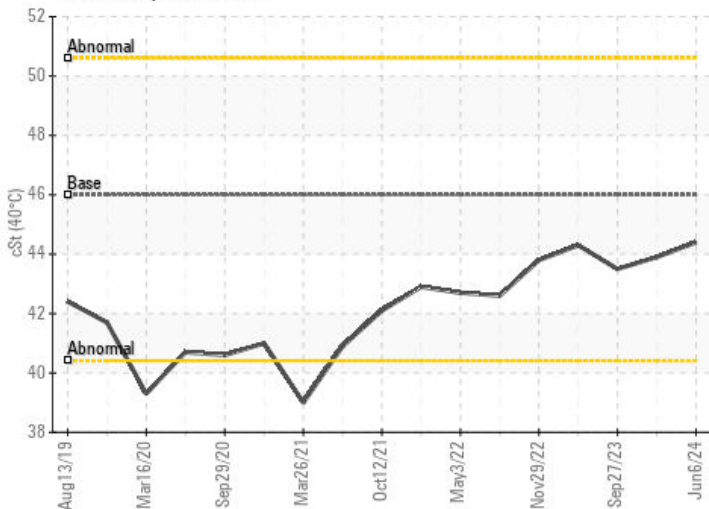
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

