CONSTRUCTION EQUIPMENT
VOLVO A60H 350190 - HYDRAULIC SYSTEM

Sample No: VCP442377
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:

SAMPLE INFORMATION

Sample Number		**VCP442377**	VCP428534	VCP434746	VCP395208
Sample Date		**15 Apr 2024**	12 Dec 2023	05 Sep 2023	05 May 2023
Machine Hours		**3617**	3131	2618	2128
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Not Changd	Not Changd
Sample Status		**NORMAL**	ATTENTION	NORMAL	NORMAL

OIL CONDITION

Visc @ 40°C	cSt	**41.1**	43.2	43.6	44.2
Acid Number (AN)	mg KOH/g	**0.55**	0.58	0.40	0.35

CONTAMINATION

Water	%	**NEG**	NEG	NEG	NEG
Particles >4µm		**3793**	6795	642	739
Particles >6µm		**1161**	2010	69	105
Particles >14µm		**153**	119	7	9
ISO 4406:1999 (c)		**19/17/14**	20/18/14	17/13/10	17/14/10
Silicon	ppm	**4**	4	4	4
Sodium	ppm	**<1**	1	1	0
Potassium	ppm	**0**	0	<1	<1

WEAR METALS

Iron	ppm	**7**	7	8	6
Copper	ppm	**4**	2	2	2
Lead	ppm	**1**	<1	<1	1
Tin	ppm	**<1**	0	0	<1
Aluminum	ppm	**0**	0	<1	0
Chromium	ppm	**<1**	<1	<1	<1
Molybdenum	ppm	**<1**	<1	<1	<1
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**0**	0	0	0
Silver	ppm	**0**	0	0	0
Manganese	ppm	**<1**	0	0	0
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**81**	55	52	61
Magnesium	ppm	**122**	115	64	2
Zinc	ppm	**583**	585	522	455
Phosphorus	ppm	**466**	468	423	316
Barium	ppm	**0**	0	0	2
Boron	ppm	**0**	0	0	0

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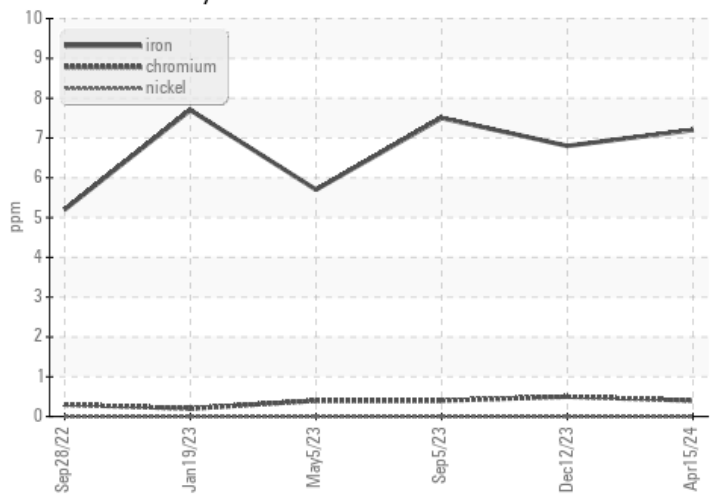
Diagnosis

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.

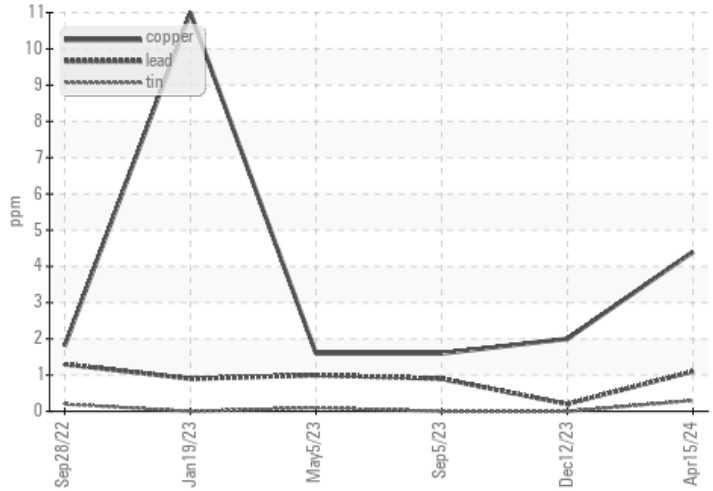
Depot: SAIBIR
Unique No: 11003478
Signed: Don Baldridge
Report Date: 01 May 2024

GRAPHS

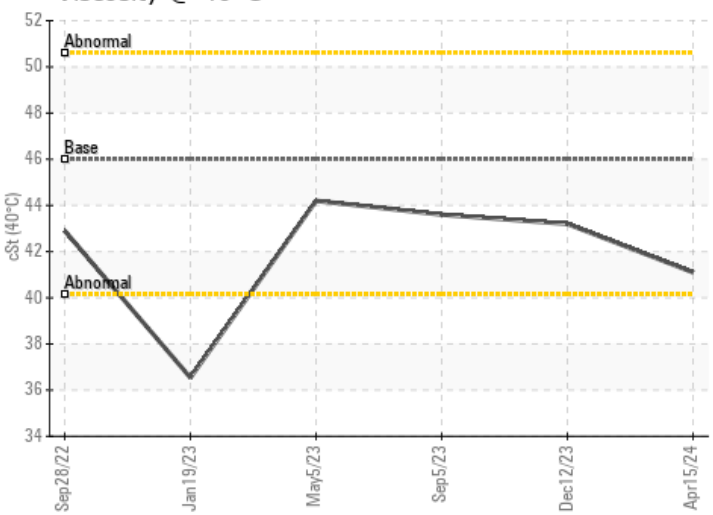
Ferrous Alloys



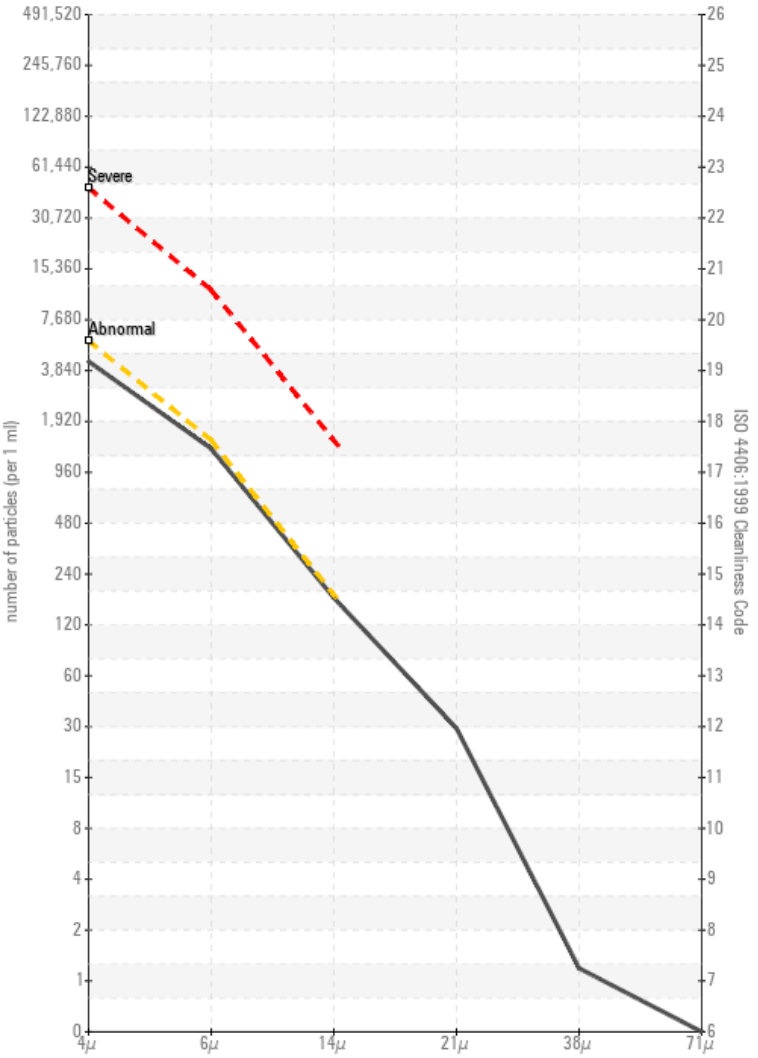
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number