



CONSTRUCTION EQUIPMENT

SWO-071488 VOLVO A60 340124 - HYDRAULIC SYSTEM



Sample No: VCP455491
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-071488



SAMPLE INFORMATION

Sample Number	VCP455491	VCP429495	VCP408969	VCP401140
Sample Date	25 Apr 2024	06 Nov 2023	15 Jun 2023	04 Mar 2023
Machine Hours	9238	8770	2220	7828
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.7	43.7	44.3	41.9
Acid Number (AN)	mg KOH/g	0.41	0.37	0.40	0.34



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		7266	20719	2258	718
Particles >6µm		2263	8803	575	143
Particles >14µm		124	804	35	14
ISO 4406:1999 (c)		20/18/14	22/20/17	18/16/12	17/14/11
Silicon	ppm	2	5	5	6
Sodium	ppm	2	0	2	3
Potassium	ppm	0	2	1	<1

Diagnosis
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) 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	8	11	8	13
Copper	ppm	3	4	3	5
Lead	ppm	<1	1	1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	2	1	2
Chromium	ppm	1	1	2	3
Molybdenum	ppm	<1	<1	1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	105	103	106	76
Magnesium	ppm	7	11	9	4
Zinc	ppm	465	447	459	385
Phosphorus	ppm	371	326	356	308
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

Depot: SAIBIR
Unique No: 11005000
Signed: Don Baldrige
Report Date: 02 May 2024

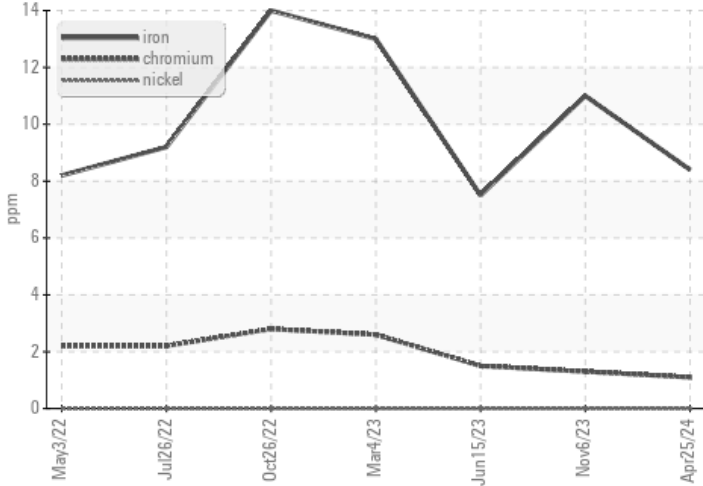


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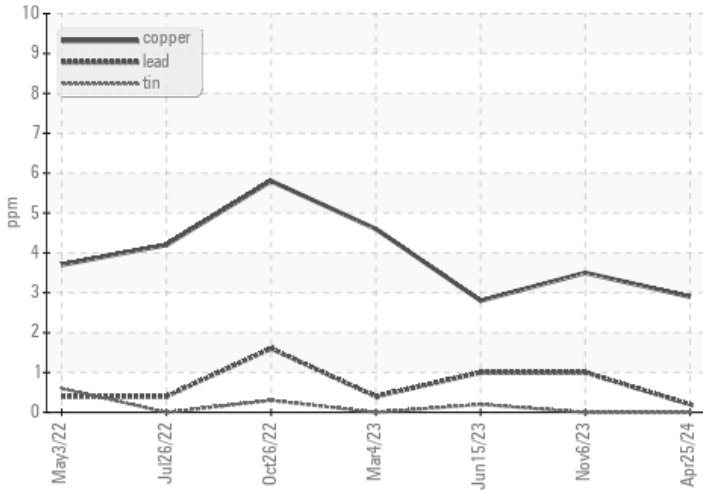


GRAPHS

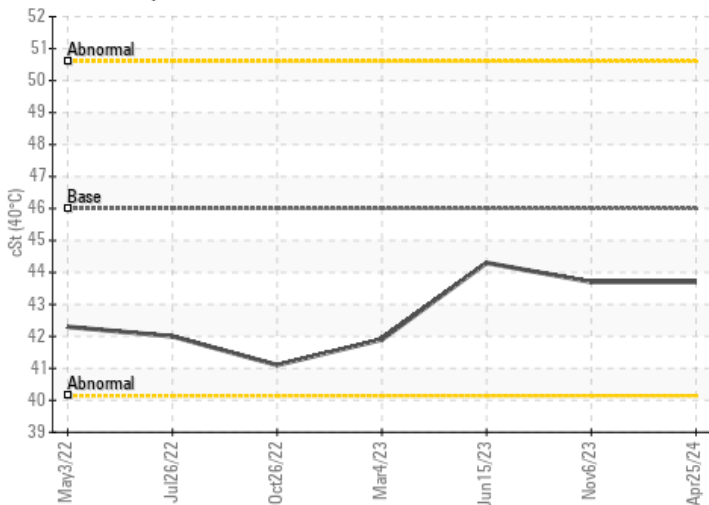
Ferrous Alloys



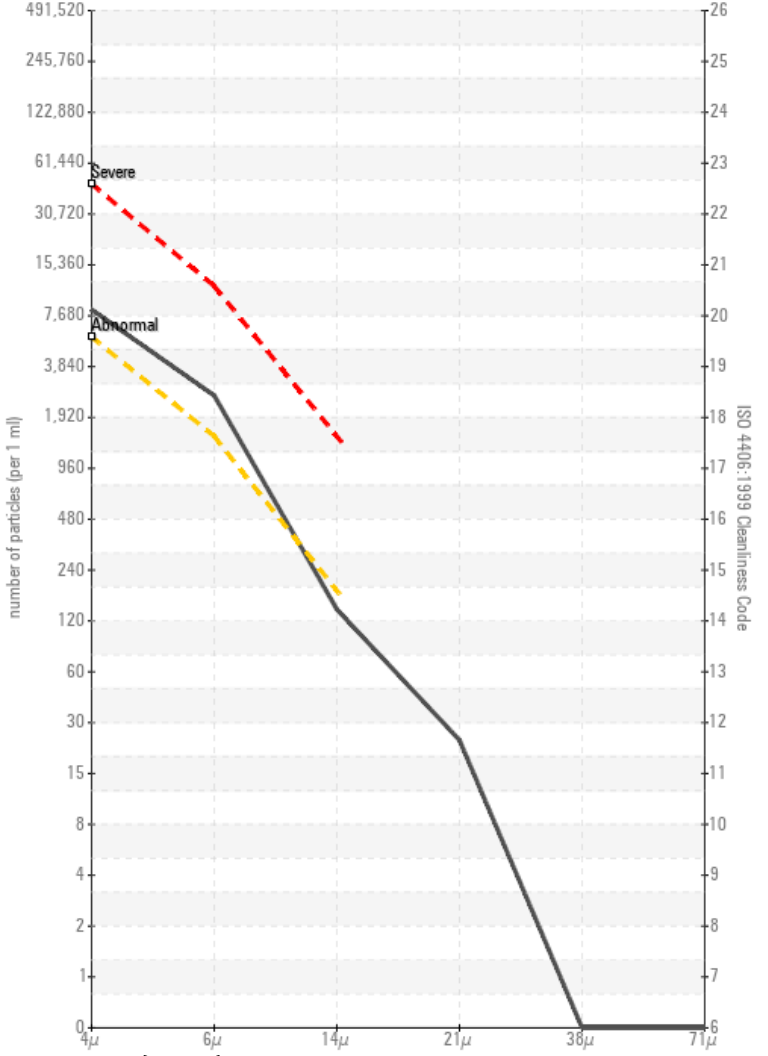
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

