



CONSTRUCTION EQUIPMENT

SWO-064724 VOLVO A60H 340044 - HYDRAULIC SYSTEM



Sample No: VCP414082
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-064724



SAMPLE INFORMATION

Sample Number	VCP414082	VCP410143	VCP392789	VCP381246
Sample Date	04 Aug 2023	11 May 2023	21 Feb 2023	19 Oct 2022
Machine Hours	8791	8303	7835	7312
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Changed	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.4	44.6	42.5	42.5
Acid Number (AN)	mg KOH/g	0.37	0.40	0.35	0.40



CONTAMINATION

Particles >4µm		11933	---	6990	19254
Particles >6µm		3153	---	1886	5332
Particles >14µm		137	---	135	462
ISO 4406:1999 (c)		21/19/14	---	20/18/14	21/20/16
Silicon	ppm	3	3	3	4
Sodium	ppm	3	1	<1	0
Potassium	ppm	2	0	0	<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 high 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	10	10	15	15
Copper	ppm	4	3	4	5
Lead	ppm	<1	0	0	1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	2	1	2
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	1	1	1	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	112	120	139	160
Magnesium	ppm	13	12	17	15
Zinc	ppm	460	457	459	491
Phosphorus	ppm	372	380	366	370
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	4

Depot: SAIBIR
Unique No: 10607138
Signed: Jonathan Hester
Report Date: 21 Aug 2023

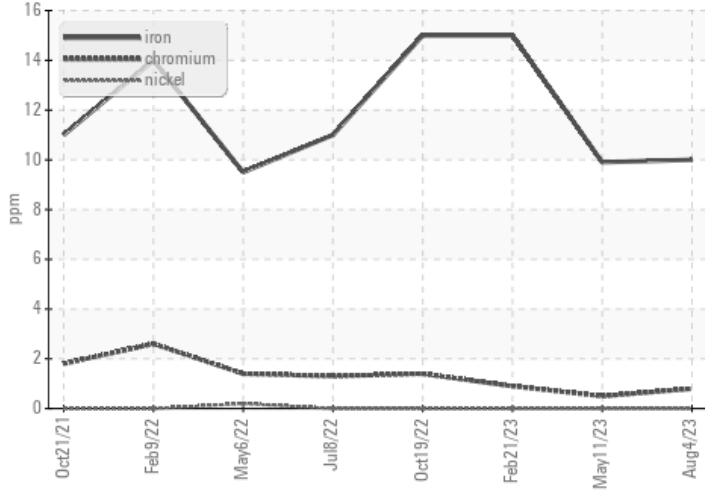


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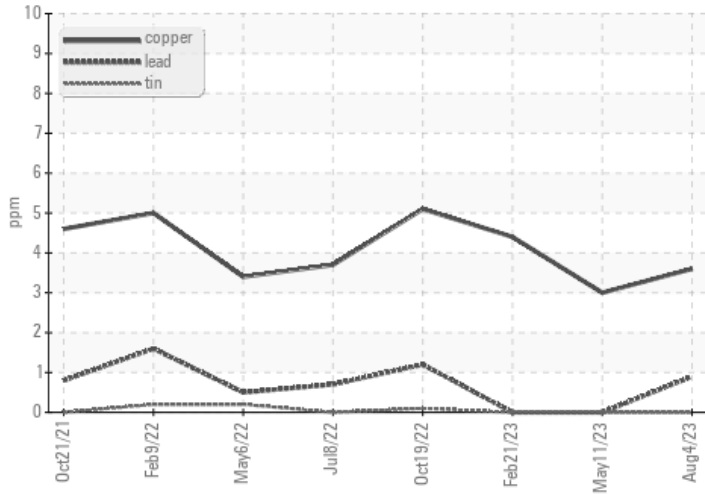


GRAPHS

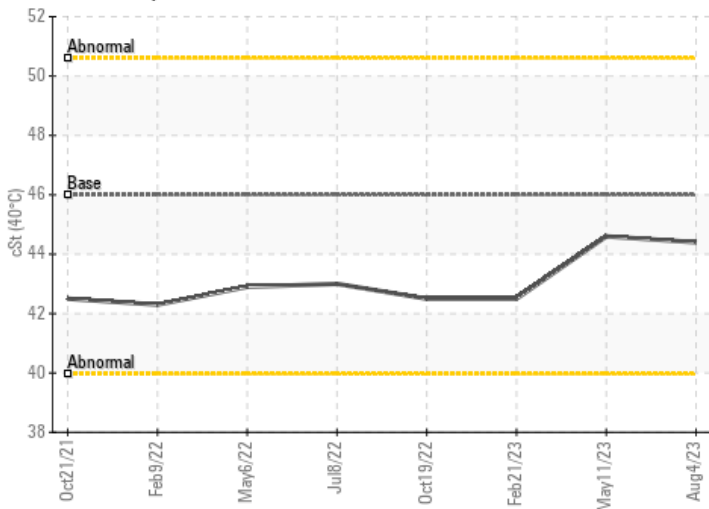
Ferrous Alloys



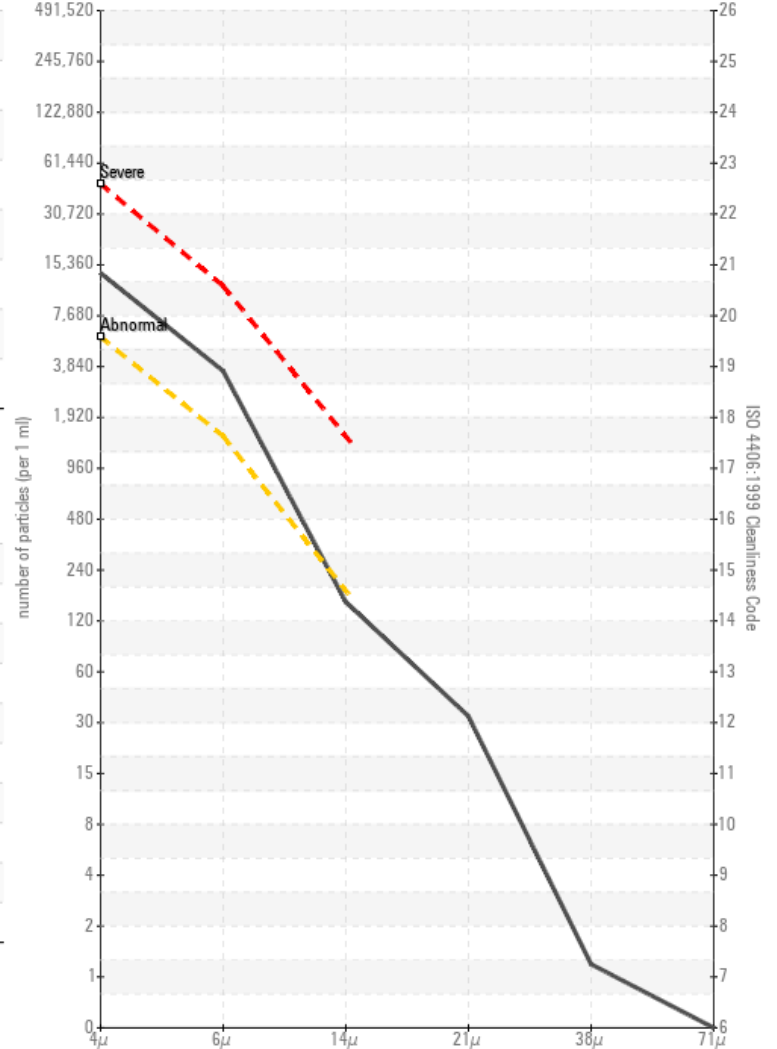
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

