CONSTRUCTION EQUIPMENT

SWO-066610 VOLVO A60H 340099 - HYDRAULIC SYSTEM

Sample No: VCP428924
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-066610

SAMPLE INFORMATION

Sample Number		**VCP428924**	VCP416646	VCP405923	VCP370849
Sample Date		**11 Oct 2023**	18 Jul 2023	27 Mar 2023	14 Oct 2022
Machine Hours		**7982**	7491	7019	6595
Oil Hours		**0**	0	0	0
Oil Changed		**Not Changd**	Not Changd	Changed	Not Changd
Sample Status		**ABNORMAL**	ATTENTION	ATTENTION	ABNORMAL

OIL CONDITION

Visc @ 40°C	cSt	**45.0**	42.9	41.7	41.2
Acid Number (AN)	mg KOH/g	**0.47**	0.38	0.35	0.39

CONTAMINATION

Particles >4µm		**7635**	4496	9434	12288
Particles >6µm		**2596**	1539	1208	3827
Particles >14µm		**169**	134	41	201
ISO 4406:1999 (c)		**20/19/15**	19/18/14	20/17/13	21/19/15
Silicon	ppm	**5**	5	10	11
Sodium	ppm	**2**	0	4	<1
Potassium	ppm	**2**	2	<1	2

WEAR METALS

Iron	ppm	**9**	10	20	21
Copper	ppm	**3**	3	7	8
Lead	ppm	**2**	1	0	3
Tin	ppm	**<1**	0	0	<1
Aluminum	ppm	**1**	<1	4	3
Chromium	ppm	**2**	2	6	6
Molybdenum	ppm	**<1**	1	<1	1
Nickel	ppm	**0**	0	0	0
Titanium	ppm	**0**	0	0	<1
Silver	ppm	**0**	0	0	0
Manganese	ppm	**<1**	0	<1	<1
Vanadium	ppm	**0**	0	0	0

ADDITIVES

Calcium	ppm	**105**	111	74	86
Magnesium	ppm	**78**	8	6	6
Zinc	ppm	**582**	463	444	457
Phosphorus	ppm	**433**	352	338	346
Barium	ppm	**0**	1	0	1
Boron	ppm	**2**	0	0	3

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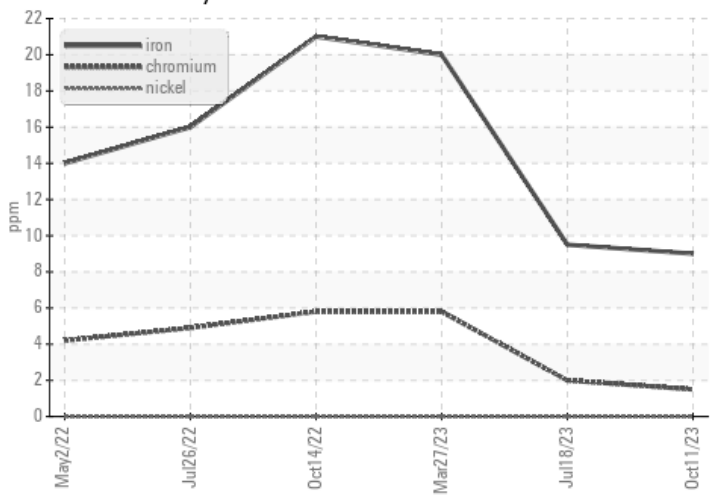
Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry and diagnostic comment updates.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

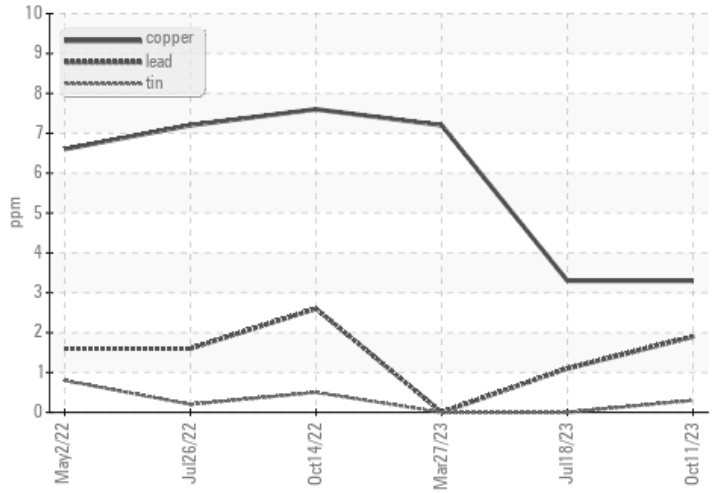
Depot: SAIBIR
Unique No: 10698812
Signed: Doug Bogart
Report Date: 20 Oct 2023

GRAPHS

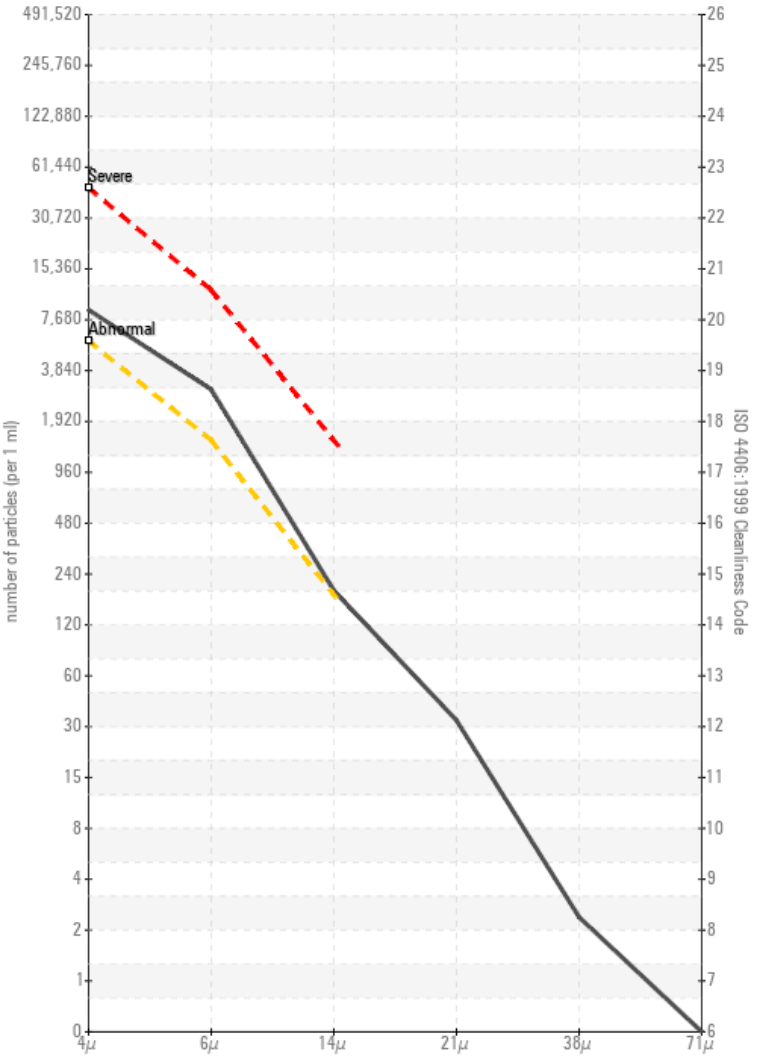
Ferrous Alloys



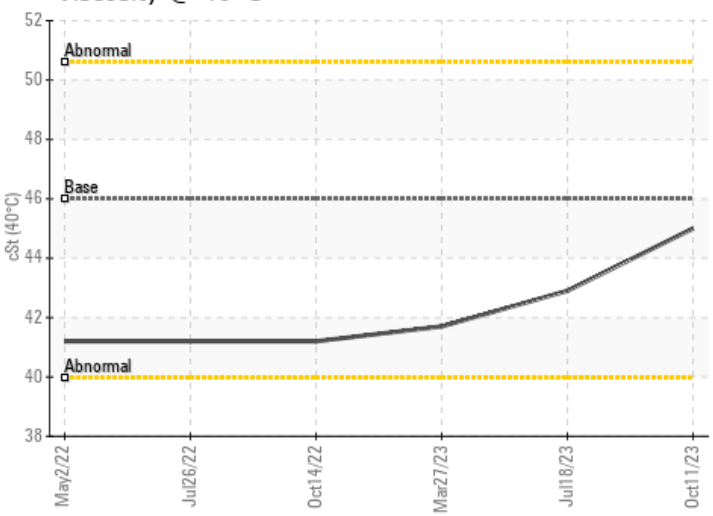
Non-ferrous Metals



Particle Count



Viscosity @ 40°C



Acid Number