



CONSTRUCTION EQUIPMENT

SWO-068735 VOLVO L120H 632828 - HYDRAULIC SYSTEM



Sample No: VCP449240
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-068735



SAMPLE INFORMATION

Sample Number	VCP449240	VCP432961	VCP414097	VCP395369
Sample Date	05 Jan 2024	04 Oct 2023	30 May 2023	20 Feb 2023
Machine Hours	4372	3901	3418	2946
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	ABNORMAL	ATTENTION	ABNORMAL	ABNORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	44.8	44.4	45.8	46.2
Acid Number (AN)	mg KOH/g	0.42	0.54	0.29	0.32



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		36817	9908	22762	18193
Particles >6µm		13411	1016	6731	5572
Particles >14µm		987	54	279	279
ISO 4406:1999 (c)		22/21/17	20/17/13	22/20/15	21/20/15
Silicon	ppm	2	5	4	4
Sodium	ppm	<1	2	2	2
Potassium	ppm	0	0	<1	0

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. 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.



WEAR METALS

Iron	ppm	2	6	8	6
Copper	ppm	<1	4	4	4
Lead	ppm	0	1	<1	2
Tin	ppm	0	<1	0	<1
Aluminum	ppm	0	1	3	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	103	68	83	73
Magnesium	ppm	36	91	10	4
Zinc	ppm	552	538	474	401
Phosphorus	ppm	442	423	347	311
Barium	ppm	0	0	2	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10830638
Signed: Don Baldrige
Report Date: 15 Jan 2024

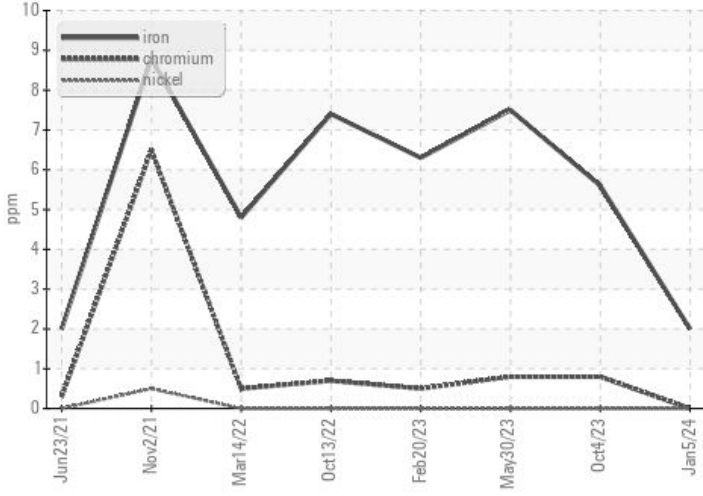


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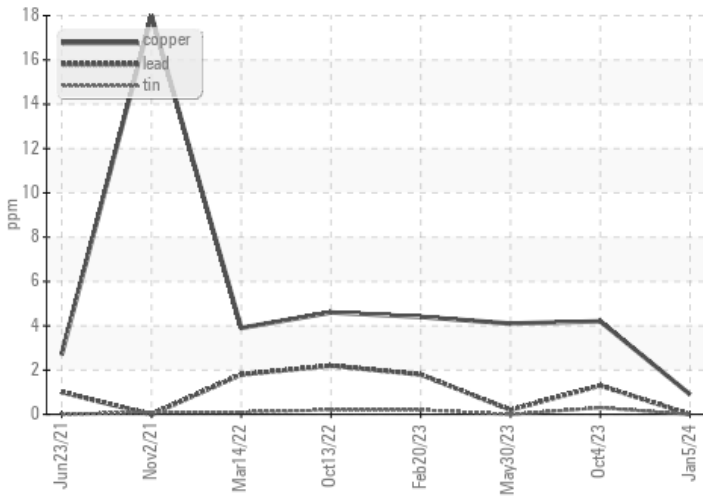


GRAPHS

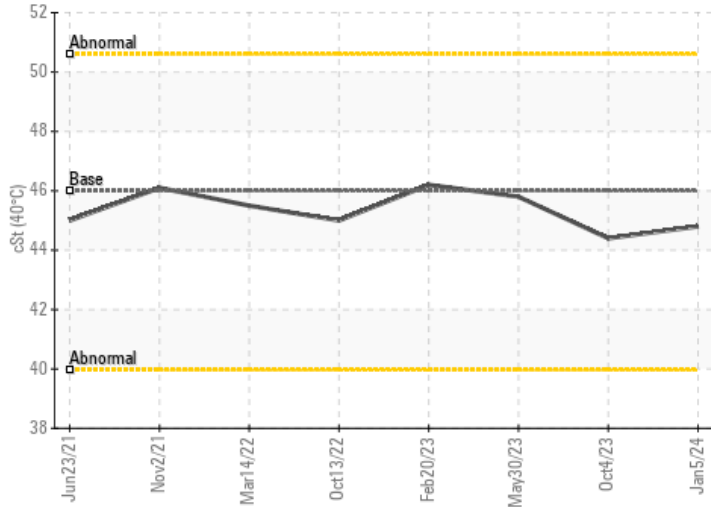
Ferrous Alloys



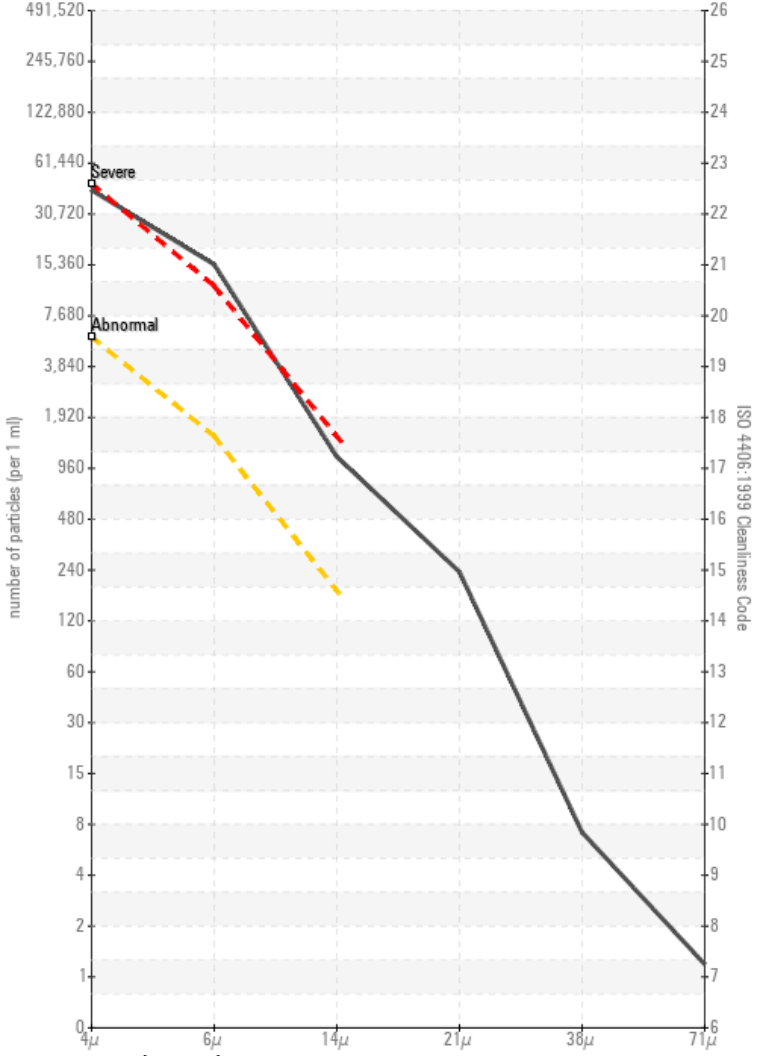
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

