



CONSTRUCTION EQUIPMENT

SWO-071203 VOLVO L120H 632828 - HYDRAULIC SYSTEM



Sample No: VCP449847
Oil Type: AW HYDRAULIC OIL ISO 46
Job No: SWO-071203



SAMPLE INFORMATION

Sample Number	VCP449847	VCP449240	VCP432961	VCP414097
Sample Date	16 Apr 2024	05 Jan 2024	04 Oct 2023	30 May 2023
Machine Hours	4868	4372	3901	3418
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ATTENTION	ABNORMAL	ATTENTION	ABNORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	43.8	44.8	44.4	45.8
Acid Number (AN)	mg KOH/g	0.40	0.42	0.54	0.29



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		5346	36817	9908	22762
Particles >6µm		1771	13411	1016	6731
Particles >14µm		173	987	54	279
ISO 4406:1999 (c)		20/18/15	22/21/17	20/17/13	22/20/15
Silicon	ppm	2	2	5	4
Sodium	ppm	<1	<1	2	2
Potassium	ppm	0	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 moderate 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	3	2	6	8
Copper	ppm	2	<1	4	4
Lead	ppm	0	0	1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	0	1	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	<1	<1	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	105	103	68	83
Magnesium	ppm	36	36	91	10
Zinc	ppm	531	552	538	474
Phosphorus	ppm	413	442	423	347
Barium	ppm	0	0	0	2
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10991243
Signed: Don Baldrige
Report Date: 24 Apr 2024

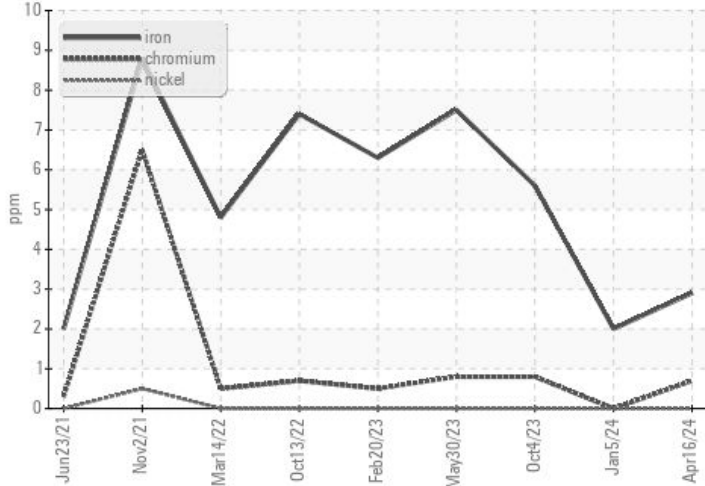


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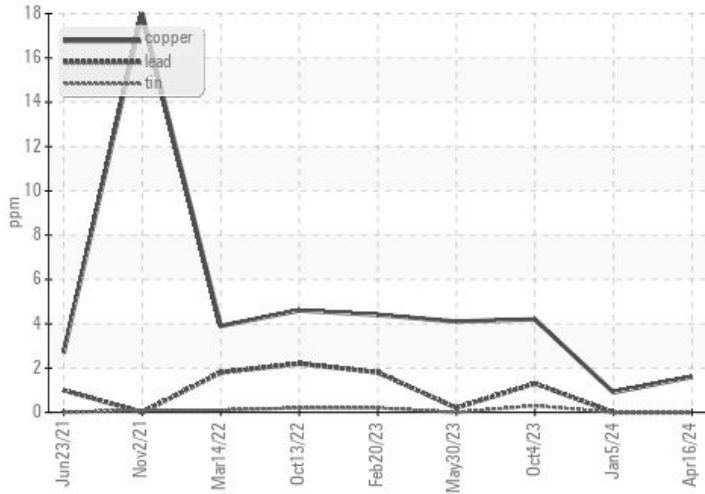


GRAPHS

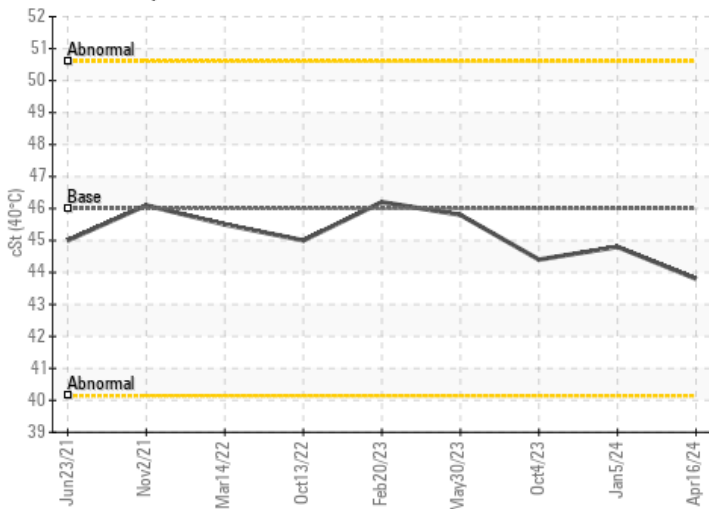
Ferrous Alloys



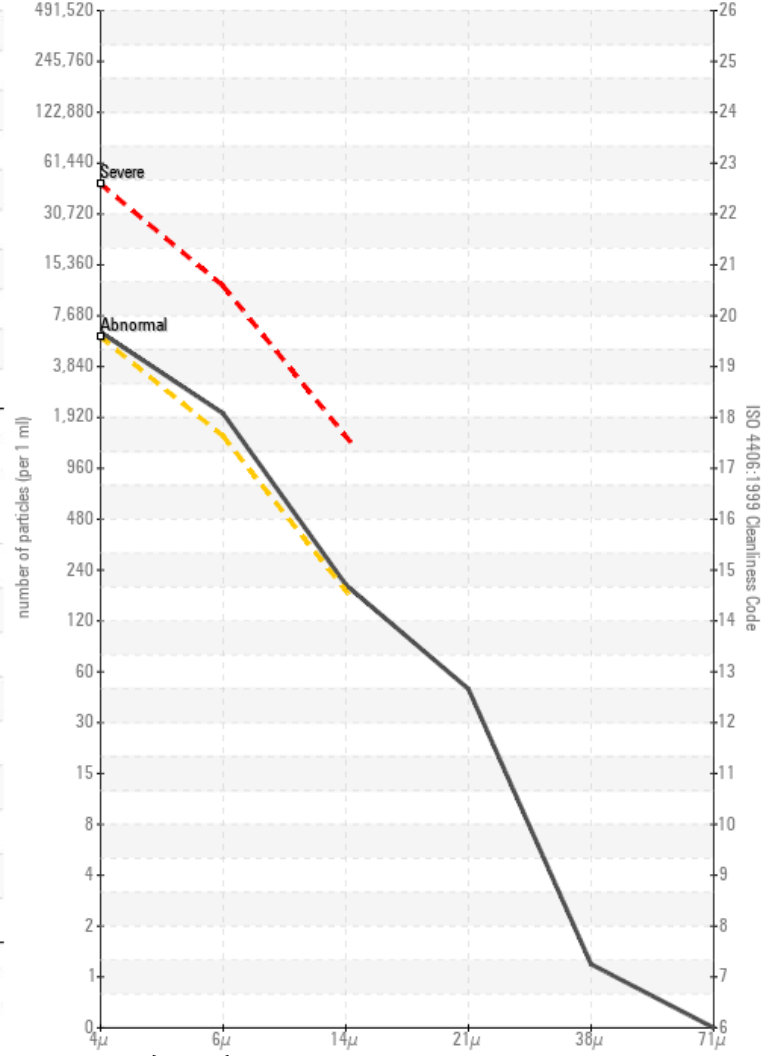
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

