



CONSTRUCTION EQUIPMENT

74848 LAKE CONWAY VOLVO L20H 1220189 - HYDRAULIC SYSTEM



Sample No: VCP445681
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 74848 LAKE CONWAY



SAMPLE INFORMATION

Sample Number	VCP445681	VCP385465	VCP346555	VCP326077
Sample Date	20 Feb 2024	14 Oct 2022	02 Mar 2022	23 Aug 2021
Machine Hours	3401	2655	2089	971
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	39.4	41.5	41.5	30.6
Acid Number (AN)	mg KOH/g	1.68	0.50	0.42	0.252



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4843	1150	4972	1022
Particles >6µm		1204	102	144	105
Particles >14µm		30	8	12	7
ISO 4406:1999 (c)		19/17/12	17/14/10	19/14/11	17/14/10
Silicon	ppm	1	2	3	0
Sodium	ppm	2	1	2	1
Potassium	ppm	2	0	0	2

Diagnosis

The oil is near the end of it's useful service life, recommend schedule an oil change. Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is at the top-end of the recommended limit.



WEAR METALS

Iron	ppm	5	4	25	16
Copper	ppm	2	1	8	7
Lead	ppm	1	0	3	2
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	6	10	<1	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	193	200	43	37
Magnesium	ppm	70	77	0	0
Zinc	ppm	376	388	319	316
Phosphorus	ppm	315	332	343	288
Barium	ppm	0	0	0	0
Boron	ppm	4	0	<1	3

Depot: VOLVO0093
Unique No: 10901142
Signed: Don Baldrige
Report Date: 01 Mar 2024

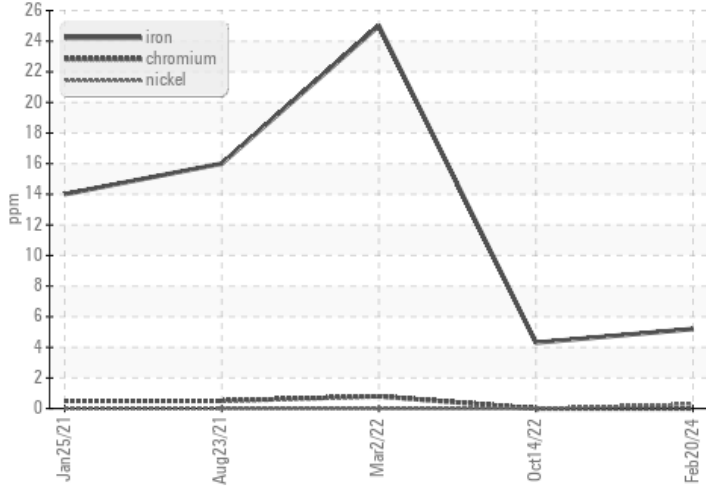


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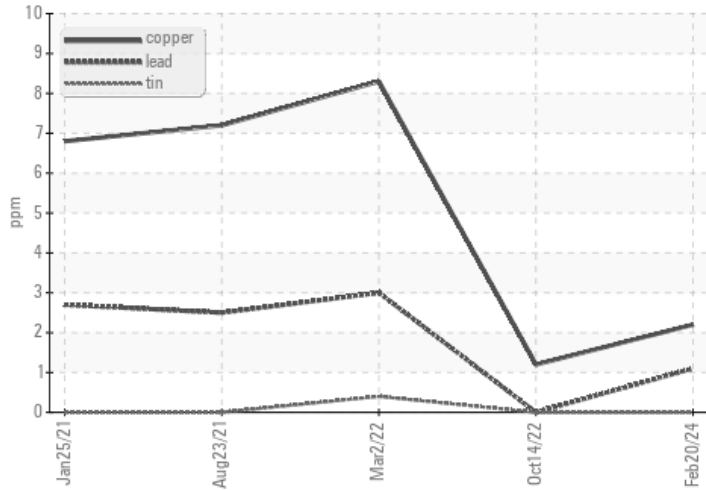


GRAPHS

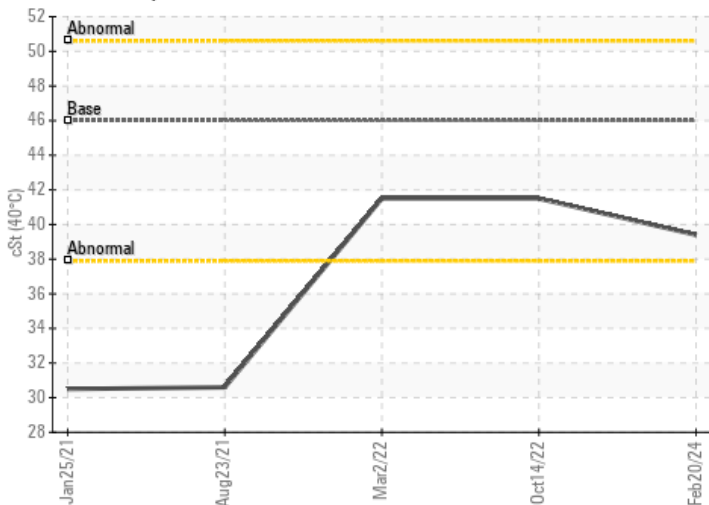
Ferrous Alloys



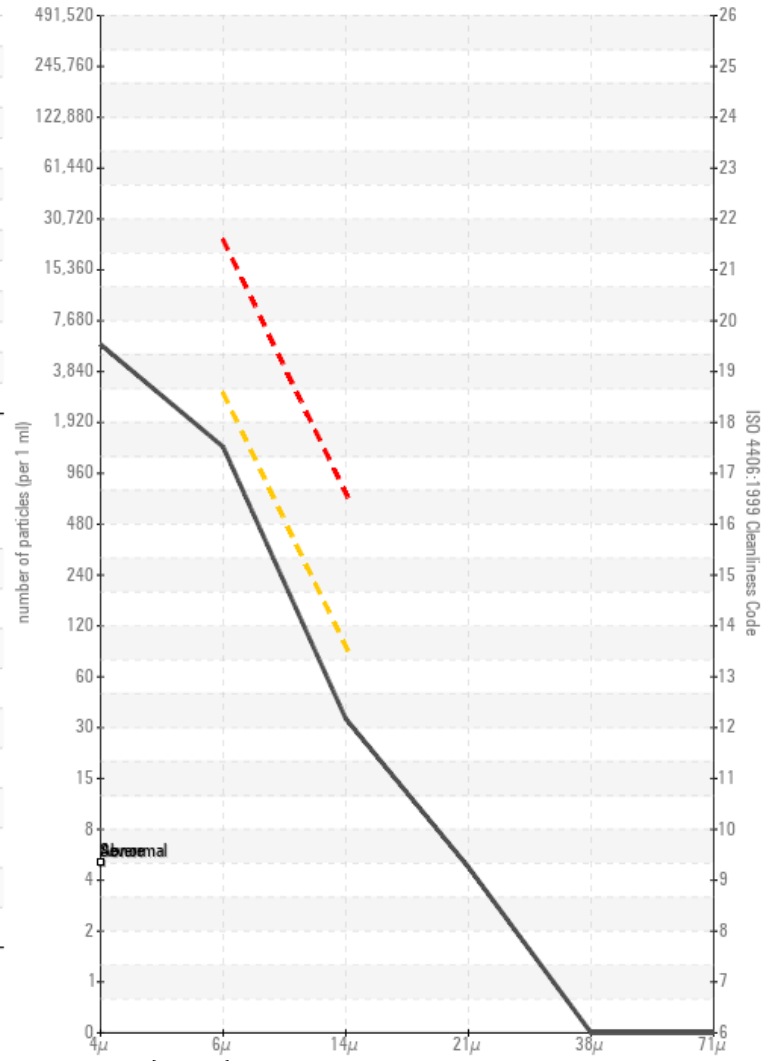
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

