



CONSTRUCTION EQUIPMENT

619874 DIPRO VOLVO A40G 353052 - HYDRAULIC SYSTEM



Sample No: VCP431916
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 619874 DIPRO



SAMPLE INFORMATION

Sample Number	VCP431916	VCP414170	VCP399474	VCP403671
Sample Date	25 Oct 2023	11 Jul 2023	20 Mar 2023	05 Jan 2023
Machine Hours	6429	5162	3963	3166
Oil Hours	2429	1000	3963	3166
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ATTENTION

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
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OIL CONDITION

Visc @ 40°C	cSt	43.4	43.9	42.6	42.9
Acid Number (AN)	mg KOH/g	0.34	0.33	0.27	0.30



CONTAMINATION

Particles >4µm		---	16610	43015	16055
Particles >6µm		---	3123	9524	4155
Particles >14µm		---	123	484	202
ISO 4406:1999 (c)		---	21/19/14	23/20/16	21/19/15
Silicon	ppm	2	2	5	5
Sodium	ppm	0	2	1	0
Potassium	ppm	1	<1	<1	<1

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris 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	6	10	8
Copper	ppm	1	<1	1	1
Lead	ppm	<1	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	0	0	0
Chromium	ppm	1	1	2	1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	33	30	60	61
Magnesium	ppm	3	3	2	2
Zinc	ppm	468	476	421	435
Phosphorus	ppm	355	381	314	319
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO2990
Unique No: 10729887
Signed: Jonathan Hester
Report Date: 09 Nov 2023

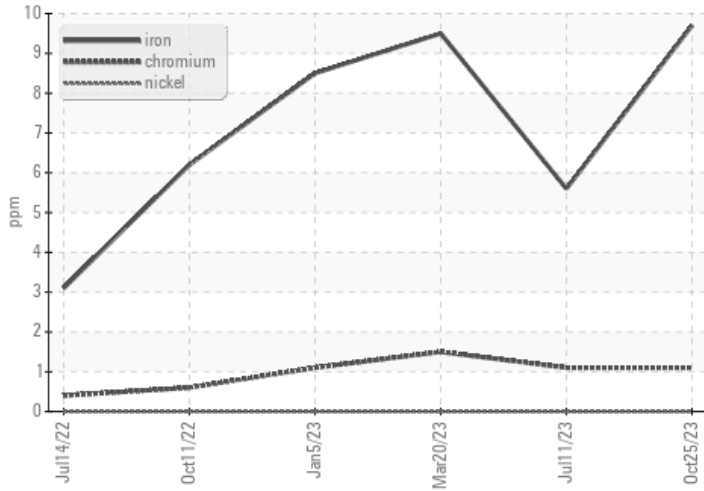


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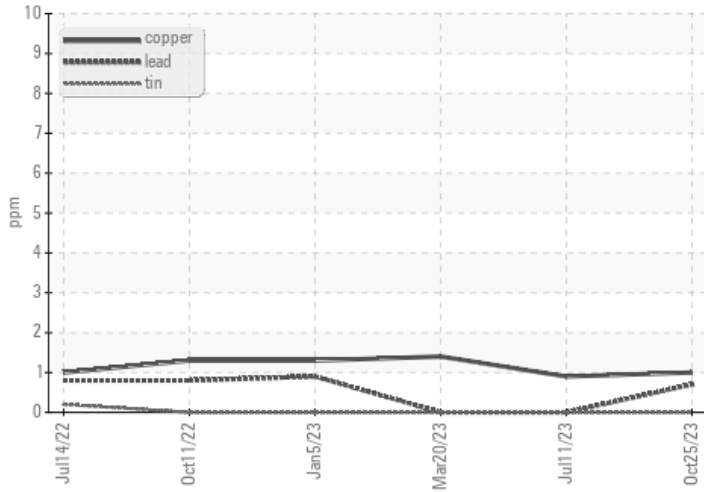


GRAPHS

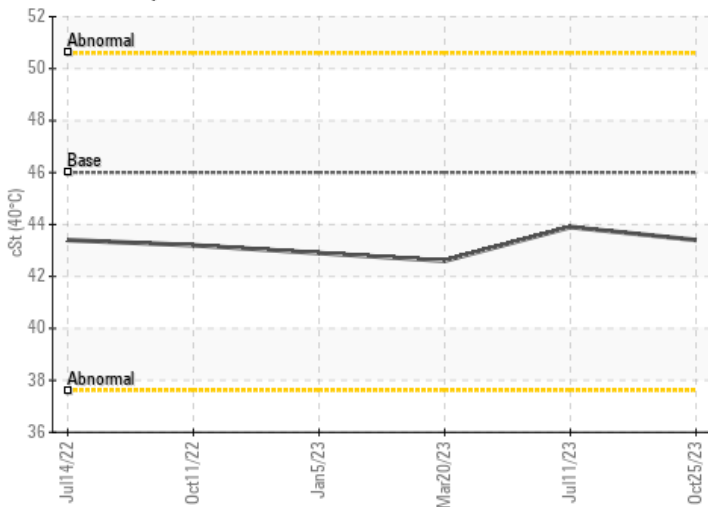
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

