



CONSTRUCTION EQUIPMENT

VOLVO A40G 352449 - HYDRAULIC SYSTEM



Sample No: VCP401176
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP401176	VCP311431	VCP294641	VCP278837
Sample Date	25 Oct 2023	30 Apr 2021	10 Dec 2020	05 Sep 2020
Machine Hours	7491	2179	1163	430
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.2	41.7	41.6	42.3
Acid Number (AN)	mg KOH/g	0.30	0.441	0.378	0.511

CONTAMINATION

Particles >4µm		---	---	8847	2844
Particles >6µm		---	---	1912	880
Particles >14µm		---	---	88	67
ISO 4406:1999 (c)		---	---	20/18/14	19/17/13
Silicon	ppm	5	5	5	4
Sodium	ppm	0	<1	<1	0
Potassium	ppm	1	<1	0	0

Diagnosis
 No corrective action is recommended at this time. 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	12	5	3	<1
Copper	ppm	3	3	2	2
Lead	ppm	3	2	1	1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	1	0	0	0
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	1	<1	<1	0
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	90	59	53	47
Magnesium	ppm	7	1	0	<1
Zinc	ppm	431	404	438	421
Phosphorus	ppm	345	309	343	318
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	0	1

Depot: VOLVO0090
Unique No: 10715453
Signed: Don Baldrige
Report Date: 31 Oct 2023

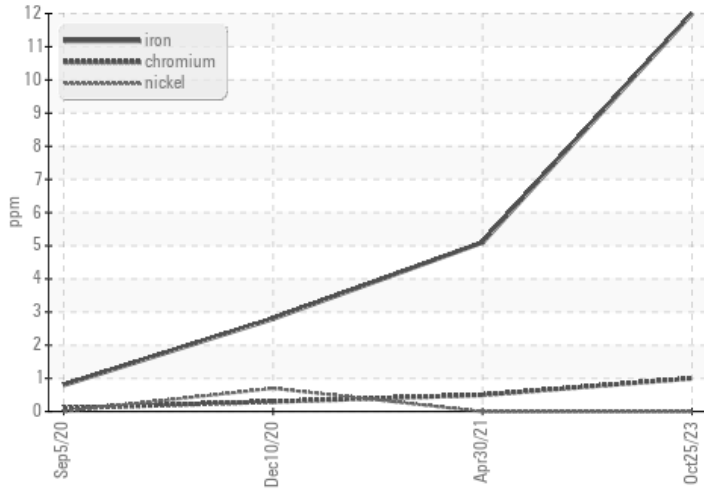


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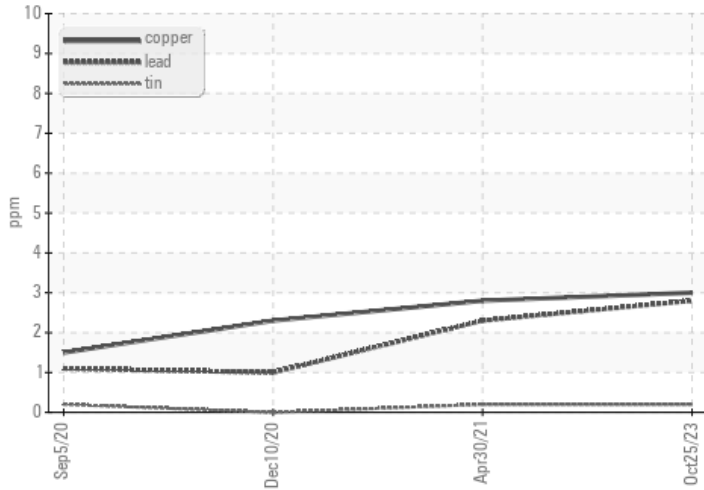


GRAPHS

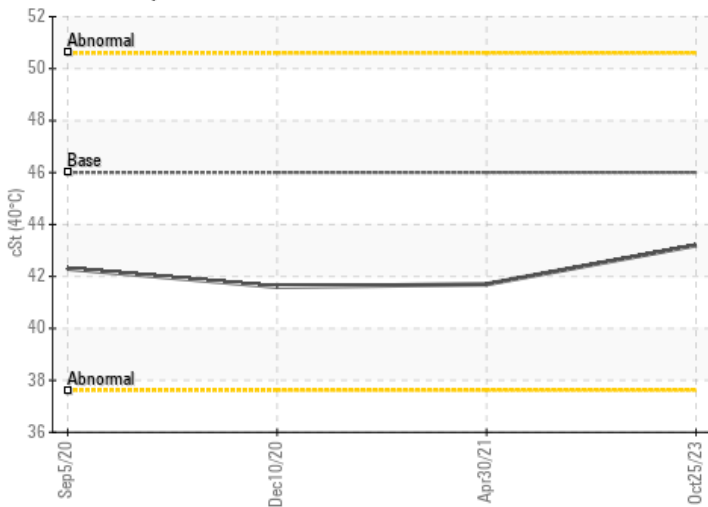
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

