



CONSTRUCTION EQUIPMENT

W113053244 VOLVO A40G 341147 - HYDRAULIC SYSTEM



Sample No: VCP412007
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: W113053244



SAMPLE INFORMATION

Sample Number	VCP412007	VCP420401	VCP418674	VCP389525
Sample Date	20 Jul 2023	01 Jun 2023	03 May 2023	27 Oct 2022
Machine Hours	13573	13304	13209	12056
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	NORMAL

Hanson Aggregates - Rocky Mount
 10471 NC 97
 ROCKY MOUNT, NC
 US 27801
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	44.9	43.7	45.0	43.8
Acid Number (AN)	mg KOH/g	0.42	0.39	0.35	0.38

T:
F:



CONTAMINATION

Particles >4µm	---	49853	8044	1276	
Particles >6µm	---	▲ 16216	■ 2487	■ 298	
Particles >14µm	---	▲ 664	▲ 185	■ 35	
ISO 4406:1999 (c)	---	23/21/17	20/18/15	17/15/12	
Silicon	ppm	■ 6	■ 5	■ 4	■ 5
Sodium	ppm	■ 2	■ 5	■ 4	■ 0
Potassium	ppm	■ <1	■ 2	■ <1	■ 1

Diagnosis

We recommend you service the filters on this component. 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	■ 9	■ 8	■ 7	■ 6
Copper	ppm	■ 3	■ 3	■ 2	■ 2
Lead	ppm	■ 3	■ 2	■ 0	■ <1
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ 4	■ 3	■ 3	■ 4
Chromium	ppm	■ <1	■ 0	■ 0	■ <1
Molybdenum	ppm	■ <1	■ 0	■ 0	■ <1
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	■ 0	■ 0	■ <1	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 159	■ 170	■ 157	■ 69
Magnesium	ppm	■ 34	■ 34	■ 33	■ 52
Zinc	ppm	■ 414	■ 403	■ 413	■ 454
Phosphorus	ppm	■ 341	■ 348	■ 346	■ 366
Barium	ppm	■ 2	■ 0	■ 0	■ 0
Boron	ppm	■ 0	■ 0	■ 0	■ <1

Depot: HANROC
Unique No: 10573178
Signed: Don Baldrige
Report Date: 27 Jul 2023

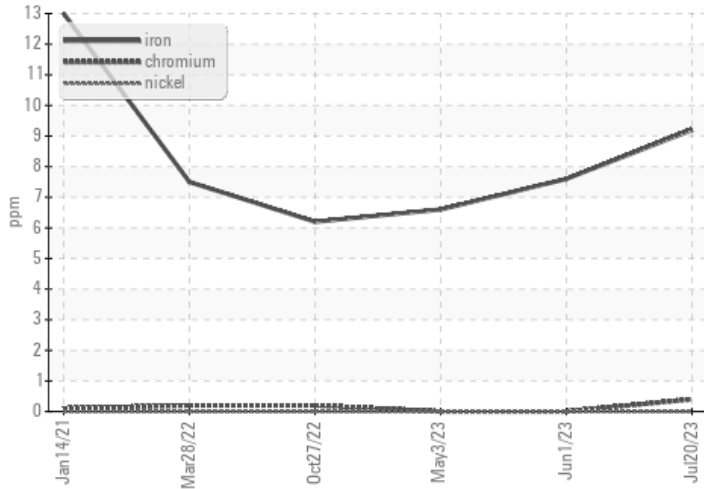


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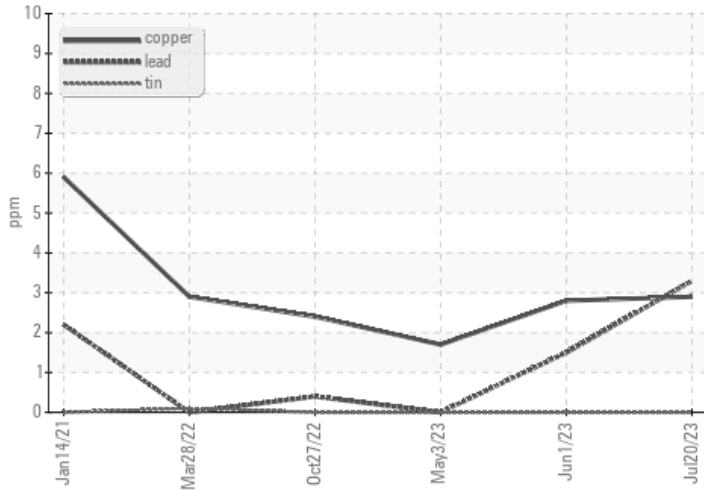


GRAPHS

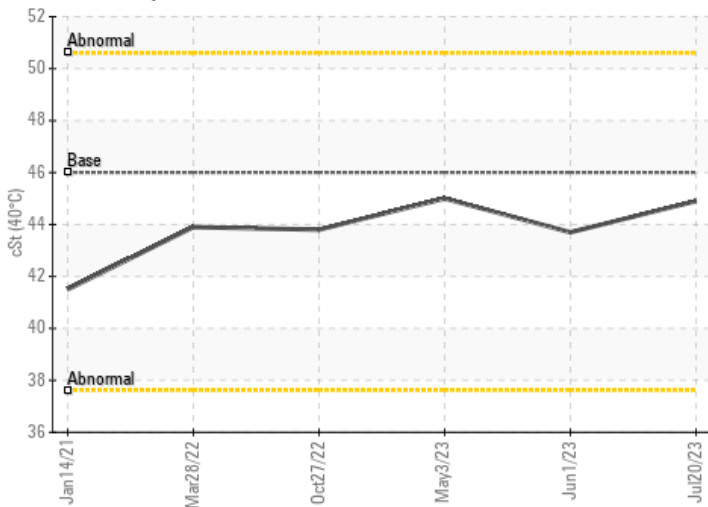
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

