



CONSTRUCTION EQUIPMENT

620889 VOLVO A45G 352039 - HYDRAULIC SYSTEM



Sample No: VCP432565
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 620889



SAMPLE INFORMATION

Sample Number	VCP432565	VCP381255	VCP336810	VCP243908
Sample Date	17 Oct 2023	29 Oct 2022	13 Nov 2021	11 Jul 2020
Machine Hours	8196	6327	4784	2343
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

ORANGE COUNTY SOLID WASTE
 5901 YOUNG PINE ROAD
 ORLANDO, FL
 US 32829
 Contact: MICHAEL BEEBE
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 T: (407)836-6652
 F: (407)836-6650



OIL CONDITION

Visc @ 40°C	cSt	41.5	41.8	40.1	40.7
Acid Number (AN)	mg KOH/g	0.37	0.46	0.404	0.358



CONTAMINATION

Particles >4µm		---	1285	601	3283
Particles >6µm		---	237	90	624
Particles >14µm		---	19	8	34
ISO 4406:1999 (c)		---	17/15/11	16/14/10	19/16/12
Silicon	ppm	6	4	4	7
Sodium	ppm	2	2	<1	1
Potassium	ppm	2	0	0	0

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	17	11	13	5
Copper	ppm	3	3	6	3
Lead	ppm	3	3	4	3
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	1	<1	0
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	1	2	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	108	108	56	50
Magnesium	ppm	6	7	3	1
Zinc	ppm	451	443	453	426
Phosphorus	ppm	325	340	319	328
Barium	ppm	0	<1	0	0
Boron	ppm	0	0	<1	<1

Depot: ORAORL
Unique No: 10701985
Signed: Don Baldrige
Report Date: 23 Oct 2023

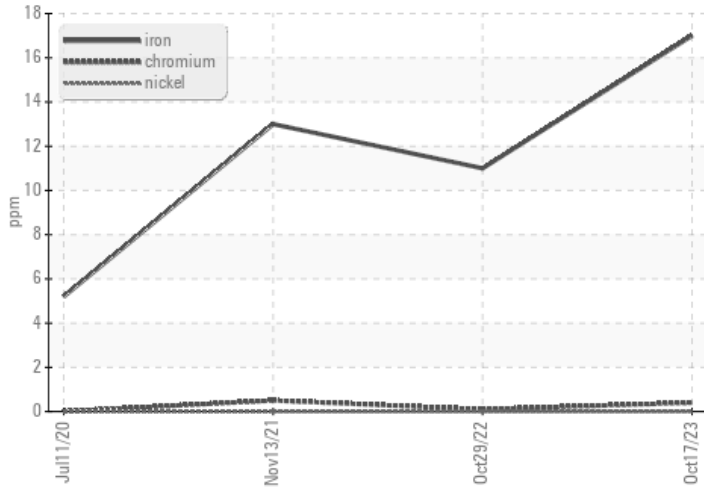


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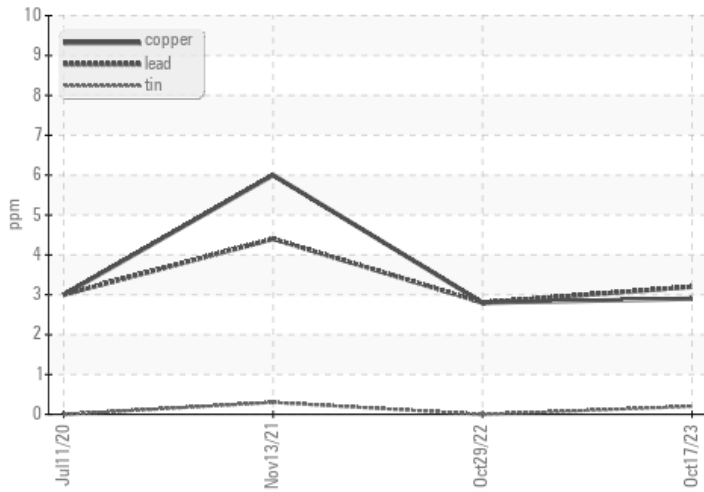


GRAPHS

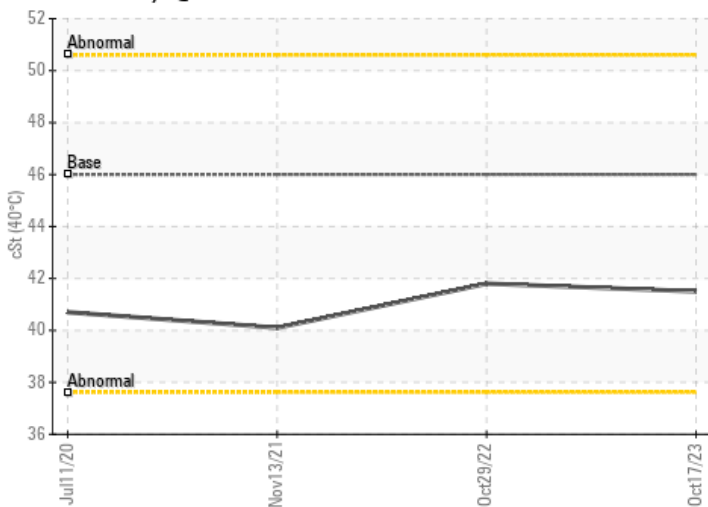
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

