



CONSTRUCTION EQUIPMENT

VOLVO A45G 352705 - HYDRAULIC SYSTEM



Sample No: VCP431007
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP431007	VCP411891	VCP402781	VCP380764
Sample Date	14 Nov 2023	09 Aug 2023	14 Apr 2023	17 Jan 2023
Machine Hours	5454	4958	4480	3993
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.4	44.3	44.5	44.3
Acid Number (AN)	mg KOH/g	0.28	0.36	0.39	0.35

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		338	2546	5849	832
Particles >6µm		36	707	1619	148
Particles >14µm		4	36	87	5
ISO 4406:1999 (c)		16/12/9	19/17/12	20/18/14	17/14/10
Silicon	ppm	5	5	5	6
Sodium	ppm	0	2	<1	0
Potassium	ppm	<1	2	0	1

Diagnosis
 Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

WEAR METALS

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

ADDITIVES

Calcium	ppm	98	75	68	78
Magnesium	ppm	8	5	3	2
Zinc	ppm	458	409	401	446
Phosphorus	ppm	365	331	311	326
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10754148
Signed: Don Baldrige
Report Date: 26 Nov 2023

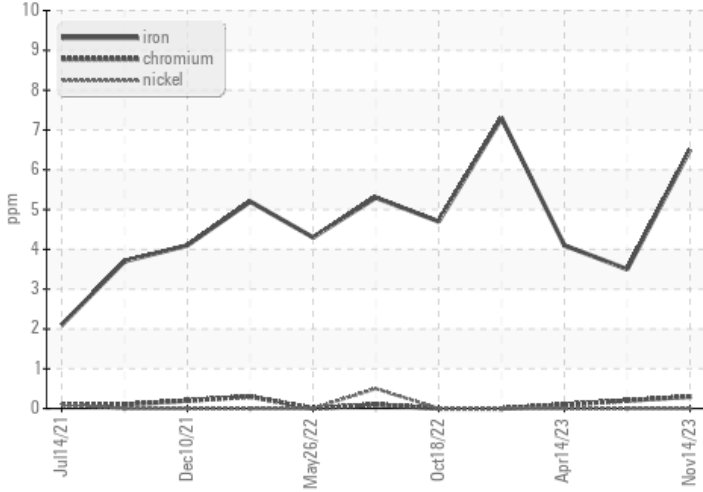


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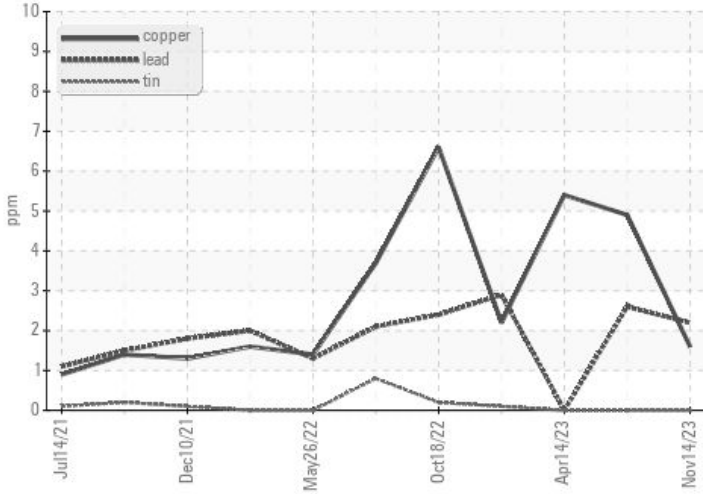


GRAPHS

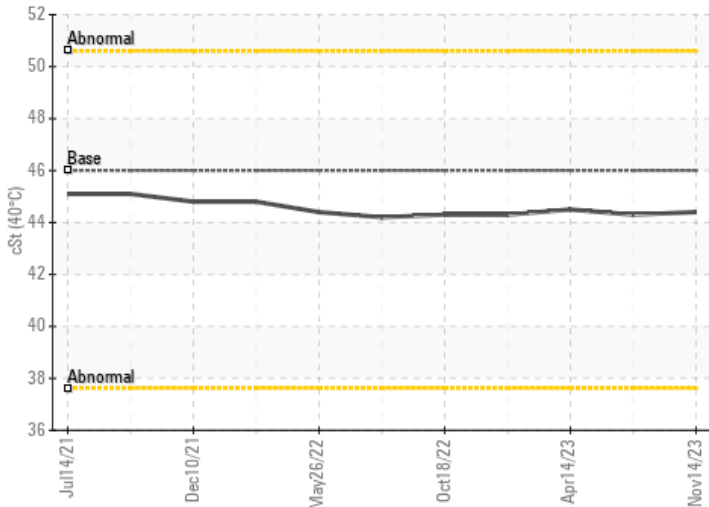
Ferrous Alloys



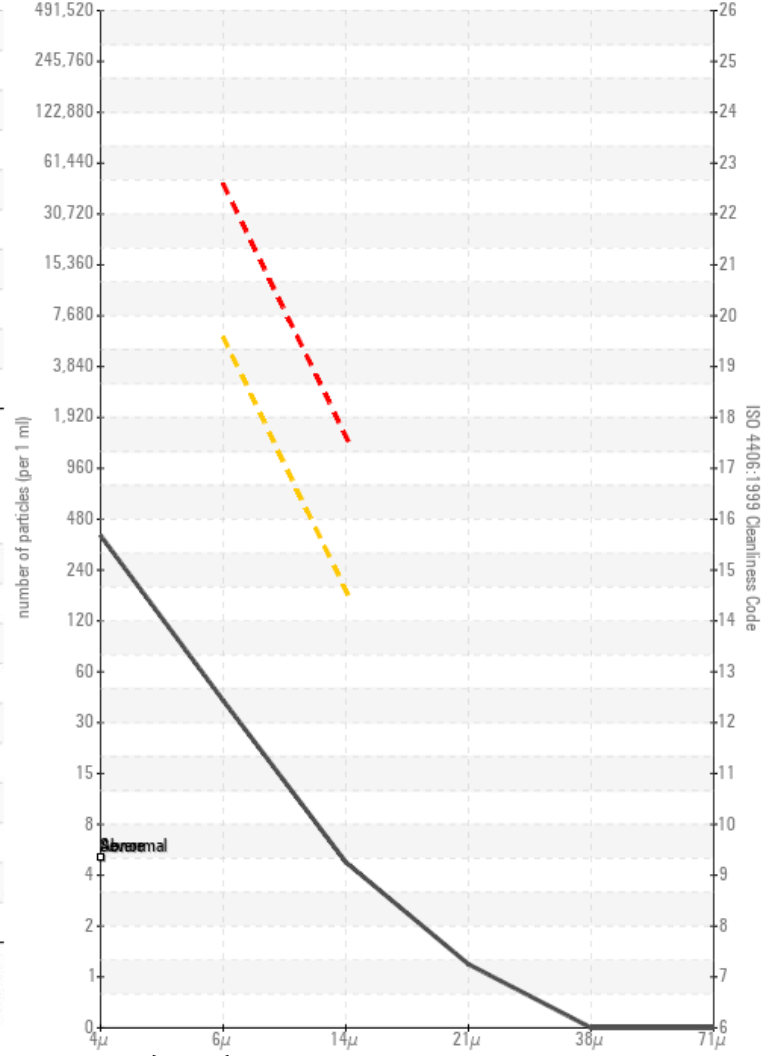
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

