



CONSTRUCTION EQUIPMENT

VOLVO A45G 352736 - HYDRAULIC SYSTEM



Sample No: VCP450769
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP450769	VCP444472	VCP427471	VCP425070
Sample Date	06 Jun 2024	27 Feb 2024	25 Oct 2023	01 Aug 2023
Machine Hours	5397	4888	4412	7719
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	45.1	44.8	44.8	44.3
Acid Number (AN)	mg KOH/g	0.39	0.44	0.33	0.38



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		16377	---	637	1211
Particles >6µm		5611	---	183	118
Particles >14µm		236	---	15	10
ISO 4406:1999 (c)		21/20/15	---	16/15/11	17/14/10
Silicon	ppm	6	3	5	7
Sodium	ppm	0	0	2	3
Potassium	ppm	1	0	<1	<1

Diagnosis
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates 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	8	0	2	9
Copper	ppm	2	0	6	3
Lead	ppm	2	<1	<1	2
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	0	0	2
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	116	74	58	66
Magnesium	ppm	23	9	0	3
Zinc	ppm	478	407	346	438
Phosphorus	ppm	341	323	233	333
Barium	ppm	0	1	0	0
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 11075180
Signed: Don Baldrige
Report Date: 14 Jun 2024

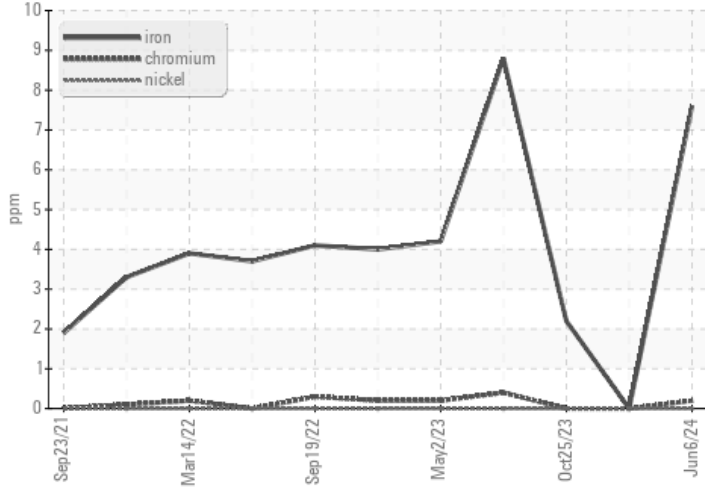


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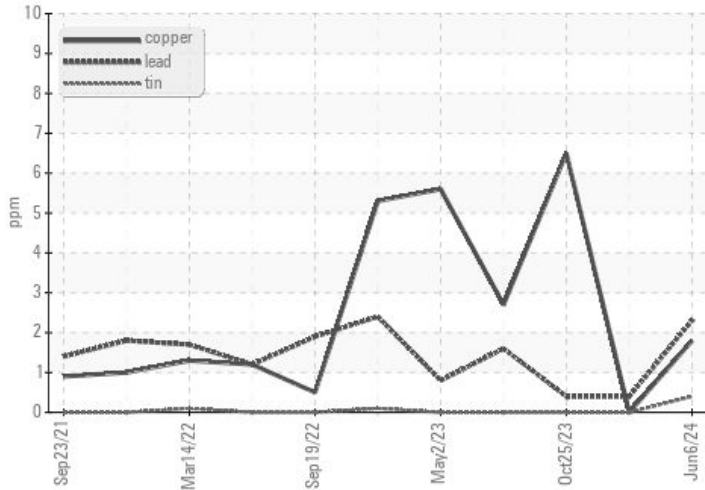


GRAPHS

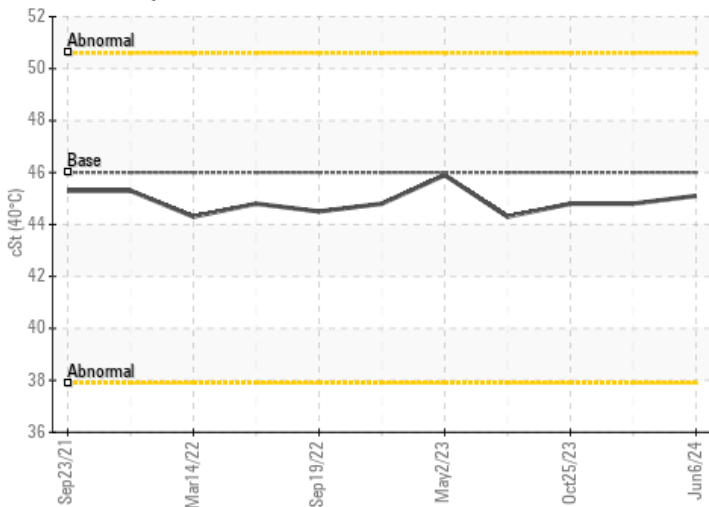
Ferrous Alloys



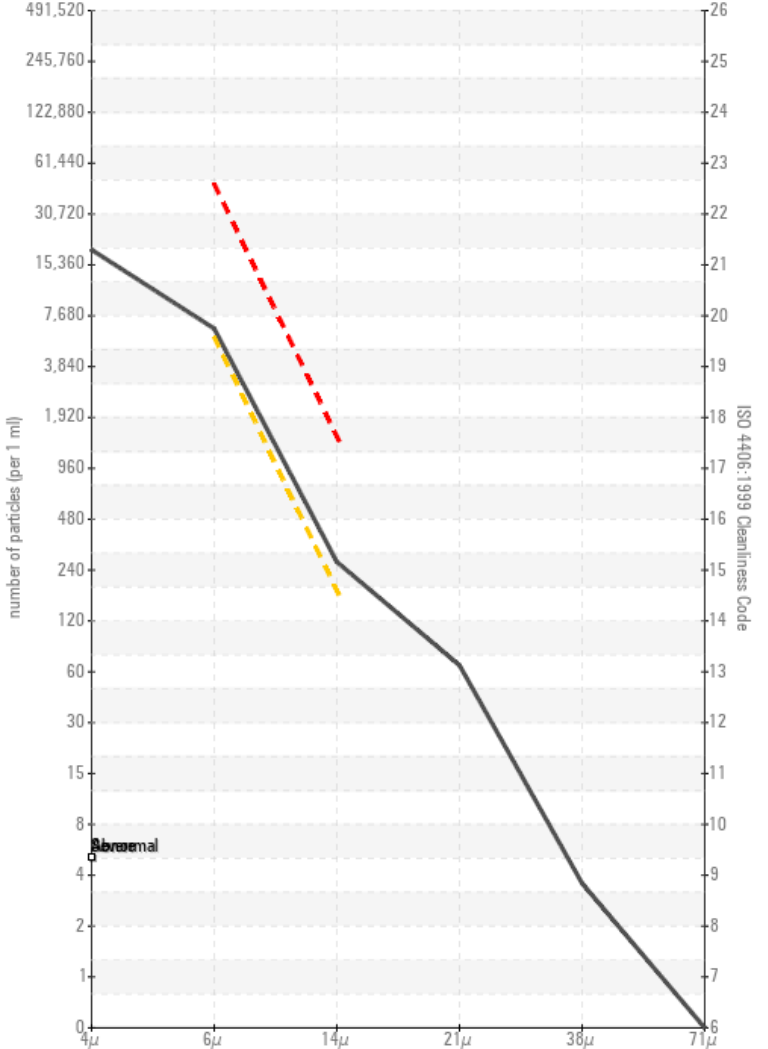
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

