



CONSTRUCTION EQUIPMENT

VOLVO A45G 342096 - HYDRAULIC SYSTEM



Sample No: VCP454698
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP454698	VCP438715	VCP431027	VCP427235
Sample Date	21 May 2024	02 Apr 2024	13 Nov 2023	22 Aug 2023
Machine Hours	10526	10079	9583	9107
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	46.9	50.2	49.8	50.4
Acid Number (AN)	mg KOH/g	0.46	0.50	0.44	0.54



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		896	9766	283	2058
Particles >6µm		103	3184	22	651
Particles >14µm		10	274	5	33
ISO 4406:1999 (c)		17/14/10	20/19/15	15/12/10	18/17/12
Silicon	ppm	3	4	4	4
Sodium	ppm	0	3	<1	3
Potassium	ppm	1	<1	1	2



WEAR METALS

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



ADDITIVES

Calcium	ppm	161	10	207	196
Magnesium	ppm	73	3	65	65
Zinc	ppm	573	136	581	567
Phosphorus	ppm	426	130	468	445
Barium	ppm	0	0	0	0
Boron	ppm	2	0	3	2

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.

Depot: SAIBIR
Unique No: 11057469
Signed: Don Baldrige
Report Date: 01 Jun 2024

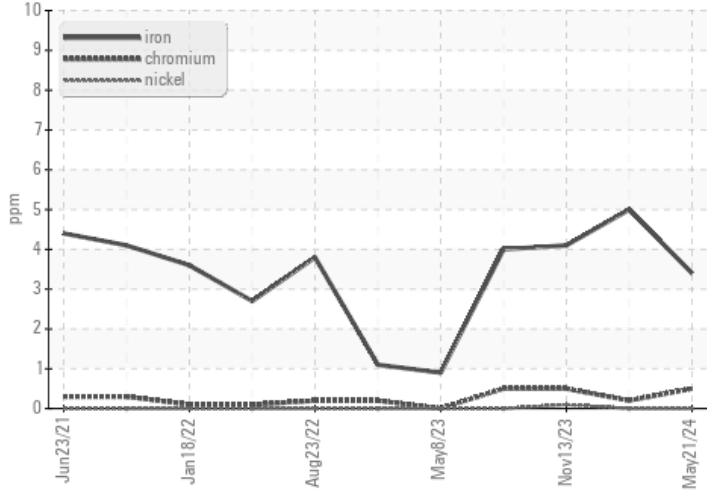


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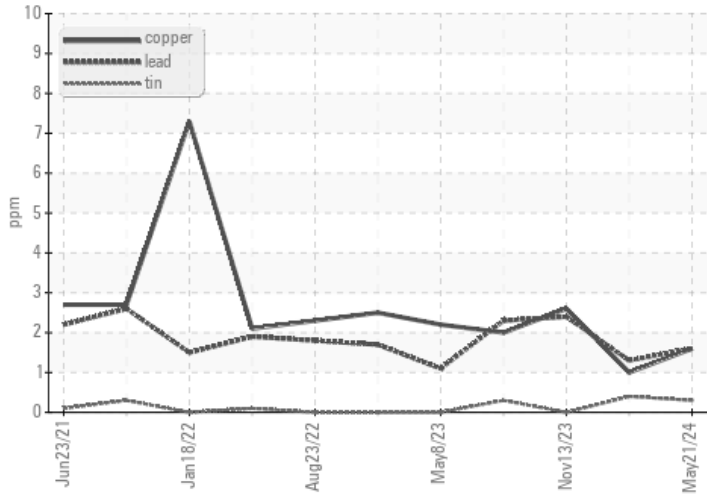


GRAPHS

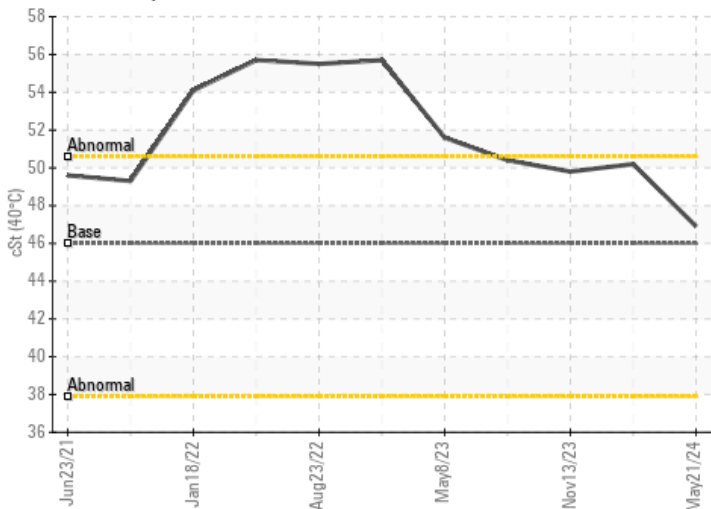
Ferrous Alloys



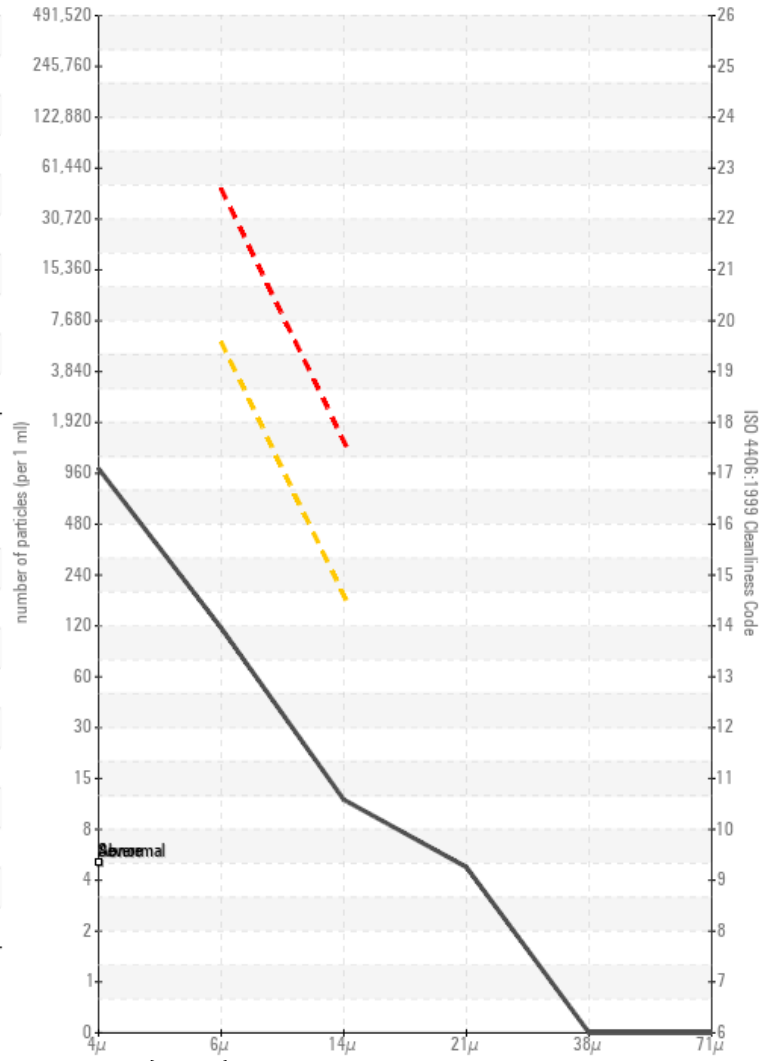
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

