



CONSTRUCTION EQUIPMENT

SWO-064224 VOLVO A45G 352736 - HYDRAULIC SYSTEM



Sample No: VCP425070
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWO-064224



SAMPLE INFORMATION

Sample Number	VCP425070	VCP400727	VCP397719	VCP367372
Sample Date	01 Aug 2023	02 May 2023	07 Dec 2022	19 Sep 2022
Machine Hours	7719	3396	2918	2448
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	44.3	45.9	44.8	44.5
Acid Number (AN)	mg KOH/g	0.38	0.33	0.32	0.33



CONTAMINATION

Particles >4µm		1211	1517	1373	3765
Particles >6µm		118	392	404	980
Particles >14µm		10	51	39	85
ISO 4406:1999 (c)		17/14/10	18/16/13	18/16/12	19/17/14
Silicon	ppm	7	6	5	6
Sodium	ppm	3	2	<1	<1
Potassium	ppm	<1	0	0	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	4	4	4
Copper	ppm	3	6	5	<1
Lead	ppm	2	<1	2	2
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	0	1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	66	58	59	65
Magnesium	ppm	3	3	0	2
Zinc	ppm	438	430	423	415
Phosphorus	ppm	333	330	327	315
Barium	ppm	0	0	0	2
Boron	ppm	0	0	0	0

Depot: SAIBIR
Unique No: 10587927
Signed: Don Baldrige
Report Date: 07 Aug 2023

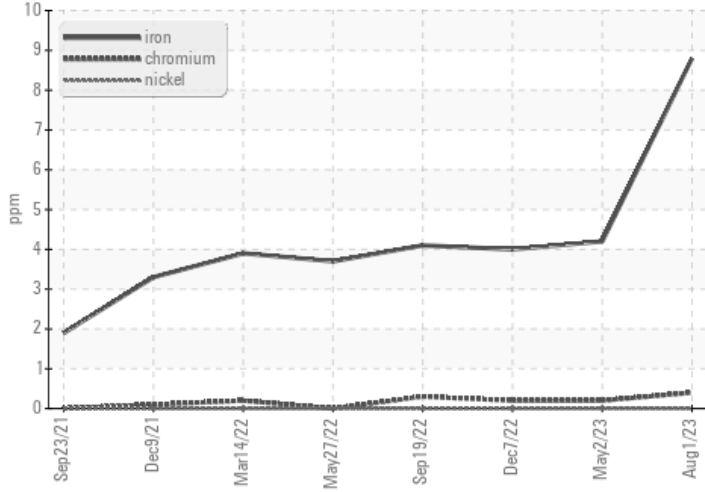


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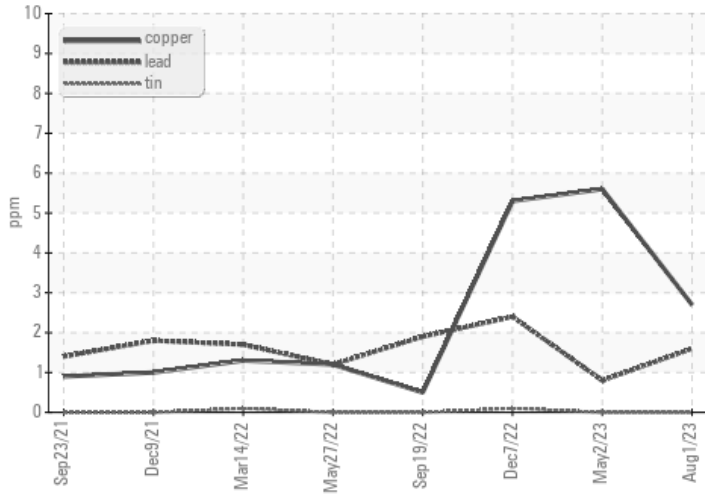


GRAPHS

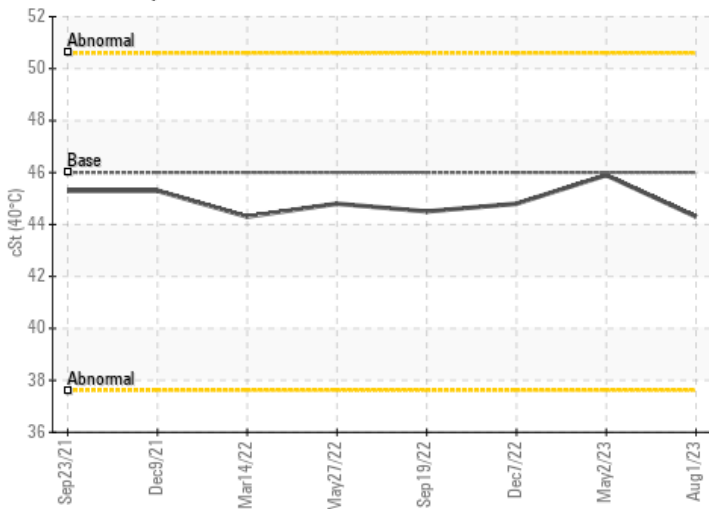
Ferrous Alloys



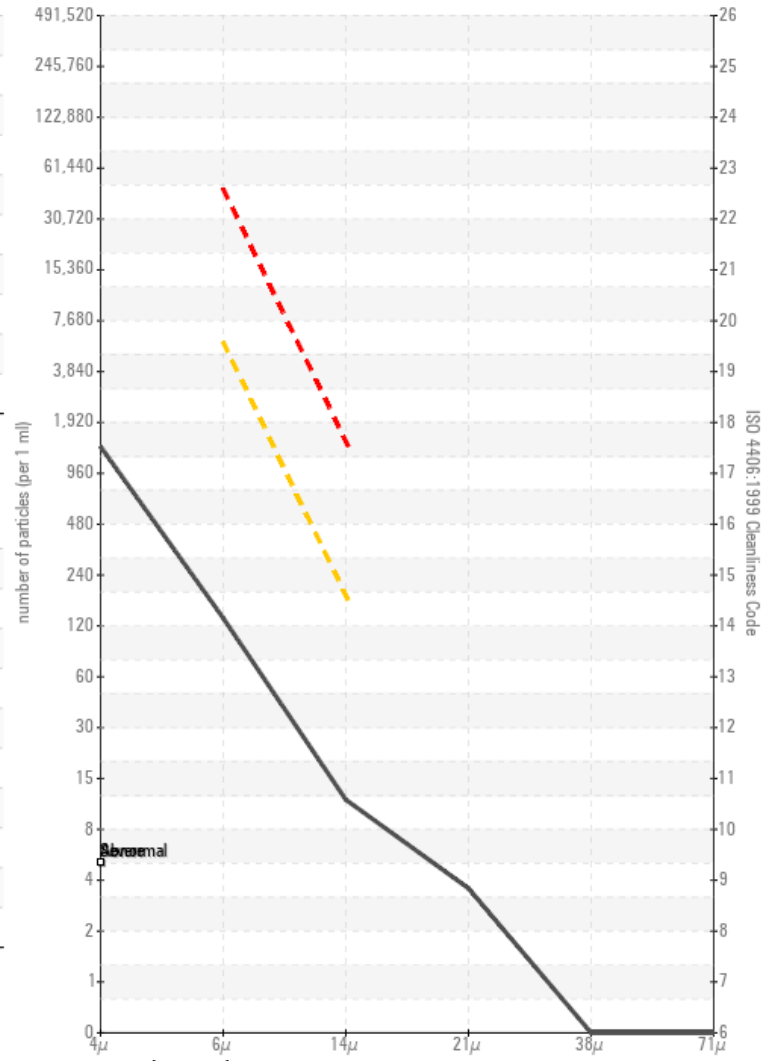
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

