



CONSTRUCTION EQUIPMENT

SWA311393 RENTAL VOLVO A45G 342479 - HYDRAULIC SYSTEM



Sample No: VCP409162
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SWA311393 RENTAL



SAMPLE INFORMATION

Sample Number	VCP409162	VCP387211	VCP364839	VCP372496
Sample Date	28 Jul 2023	27 Oct 2022	24 Aug 2022	25 Jun 2022
Machine Hours	9012	6690	6068	6550
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	40.7	39.1	39.3	39.3
Acid Number (AN)	mg KOH/g	0.33	0.40	0.43	0.41



CONTAMINATION

Particles >4µm		1233	10852	6920	13926
Particles >6µm		168	1456	452	786
Particles >14µm		13	83	12	18
ISO 4406:1999 (c)		17/15/11	21/18/14	20/16/11	21/17/11
Silicon	ppm	7	13	13	12
Sodium	ppm	0	1	0	2
Potassium	ppm	3	2	3	<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 oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	14	24	22	20
Copper	ppm	4	15	15	13
Lead	ppm	1	3	3	3
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	4	6	6	5
Chromium	ppm	1	2	2	2
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	<1	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	57	63	61	62
Magnesium	ppm	9	7	6	6
Zinc	ppm	494	475	454	484
Phosphorus	ppm	353	351	349	371
Barium	ppm	0	2	0	<1
Boron	ppm	0	<1	0	3

Depot: VOLVO5055
Unique No: 10589287
Signed: Don Baldrige
Report Date: 08 Aug 2023

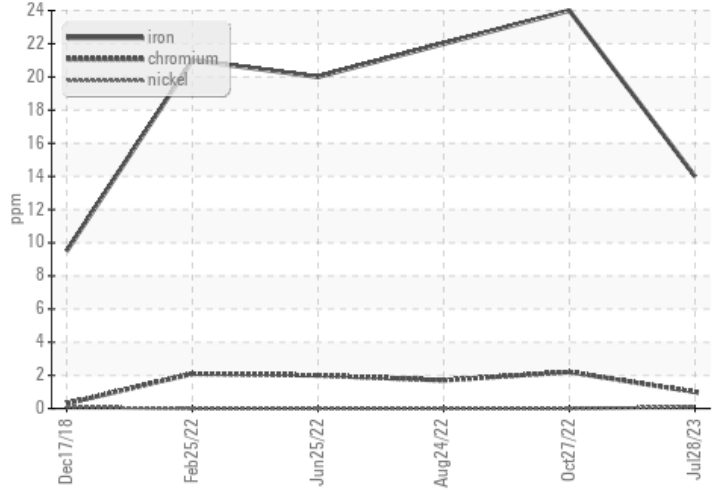


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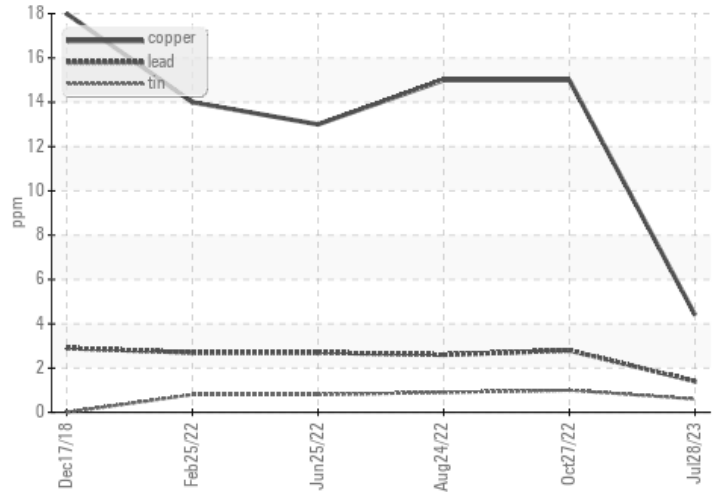


GRAPHS

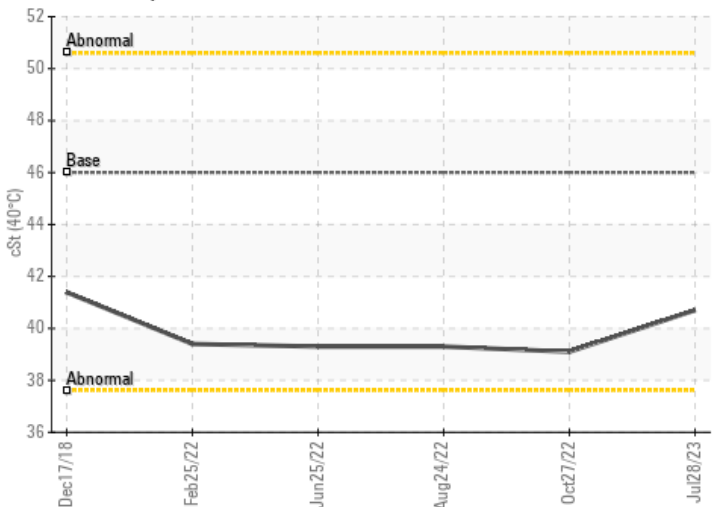
Ferrous Alloys



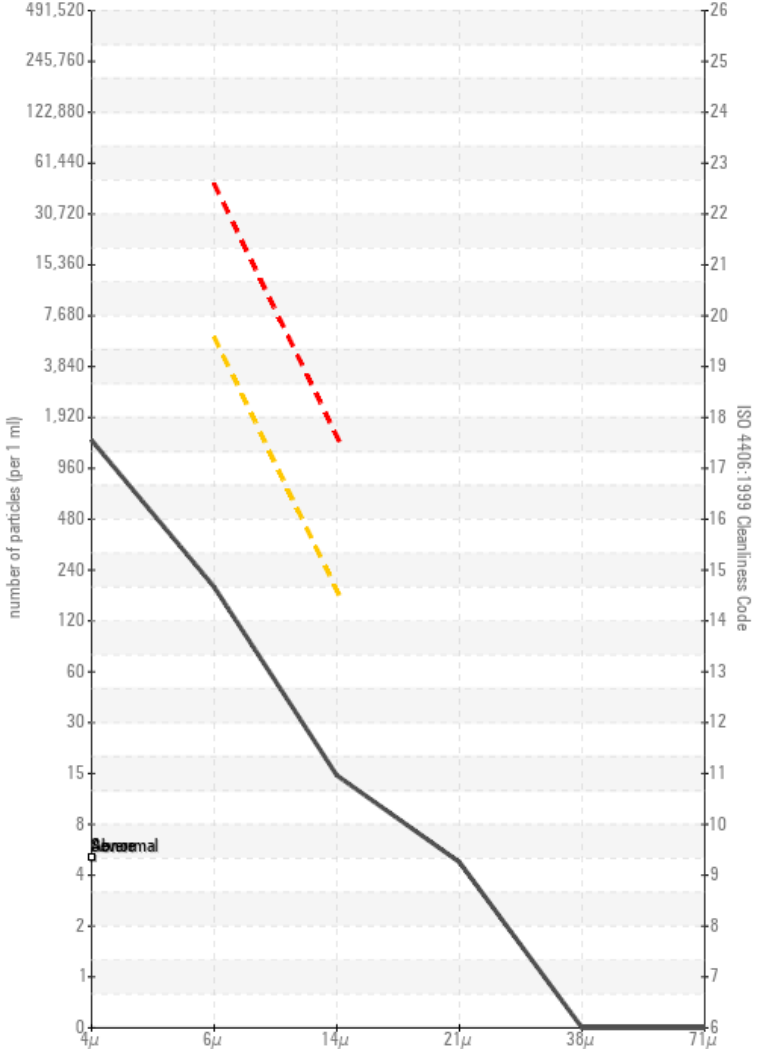
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

