



CONSTRUCTION EQUIPMENT

593719 TUCKER VOLVO EC380E 314427 - HYDRAULIC SYSTEM



Sample No: VCP422487
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 593719 TUCKER



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SAMPLE INFORMATION

Sample Number	VCP422487	VCP410341	VCP376526	VCP359343
Sample Date	09 Aug 2023	13 Mar 2023	04 Aug 2022	25 Apr 2022
Machine Hours	4011	3403	2895	2240
Oil Hours	2000	1403	1500	2240
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	41.1	41.1	41.8	42.7
Acid Number (AN)	mg KOH/g	0.51	0.42	0.45	0.45



CONTAMINATION

Particles >4µm	4166	11173	10566	8711	
Particles >6µm	542	1064	1463	1008	
Particles >14µm	45	23	63	36	
ISO 4406:1999 (c)	19/16/13	21/17/12	21/18/13	20/17/12	
Silicon	ppm	4	4	3	3
Sodium	ppm	0	0	0	0
Potassium	ppm	<1	<1	1	1



WEAR METALS

Iron	ppm	5	3	2	2
Copper	ppm	17	15	13	20
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	5	4	3	4
Molybdenum	ppm	<1	0	0	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	66	63	57	86
Magnesium	ppm	<1	4	0	0
Zinc	ppm	430	505	459	497
Phosphorus	ppm	336	394	351	378
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot: VOLVO0093
Unique No: 10620130
Signed: Wes Davis
Report Date: 28 Aug 2023

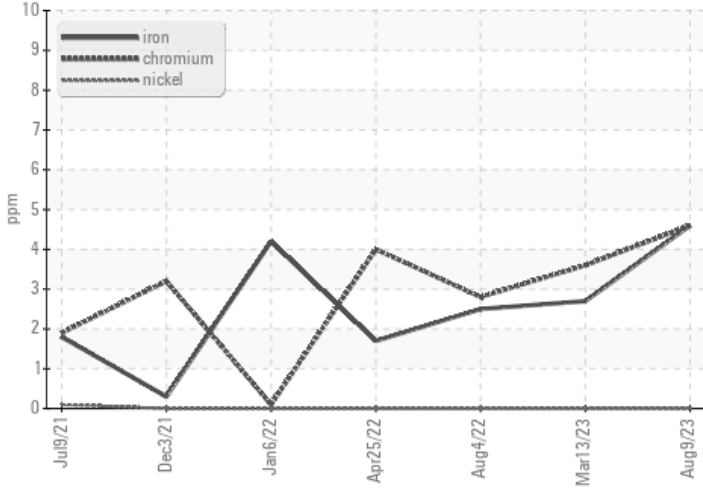


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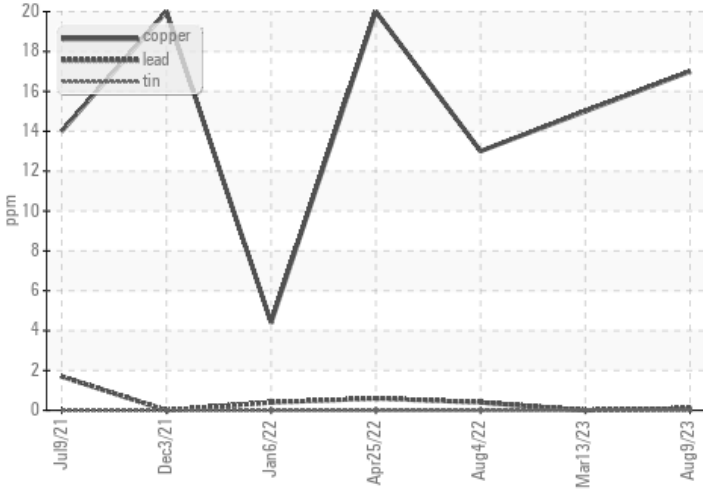


VOLVO GRAPHS

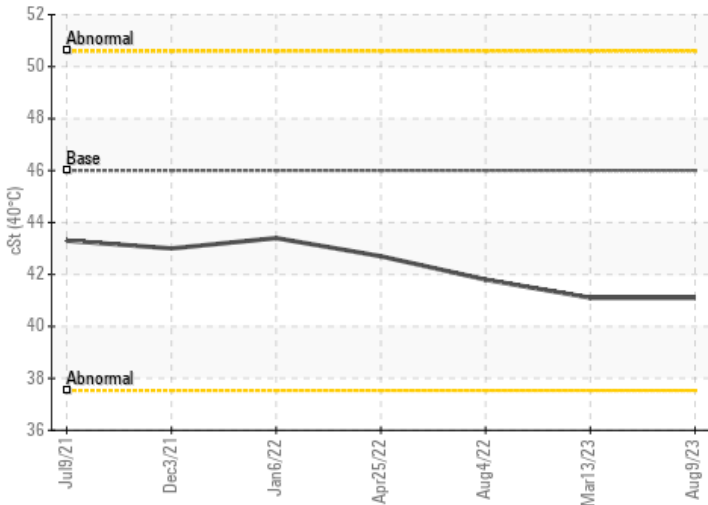
Ferrous Alloys



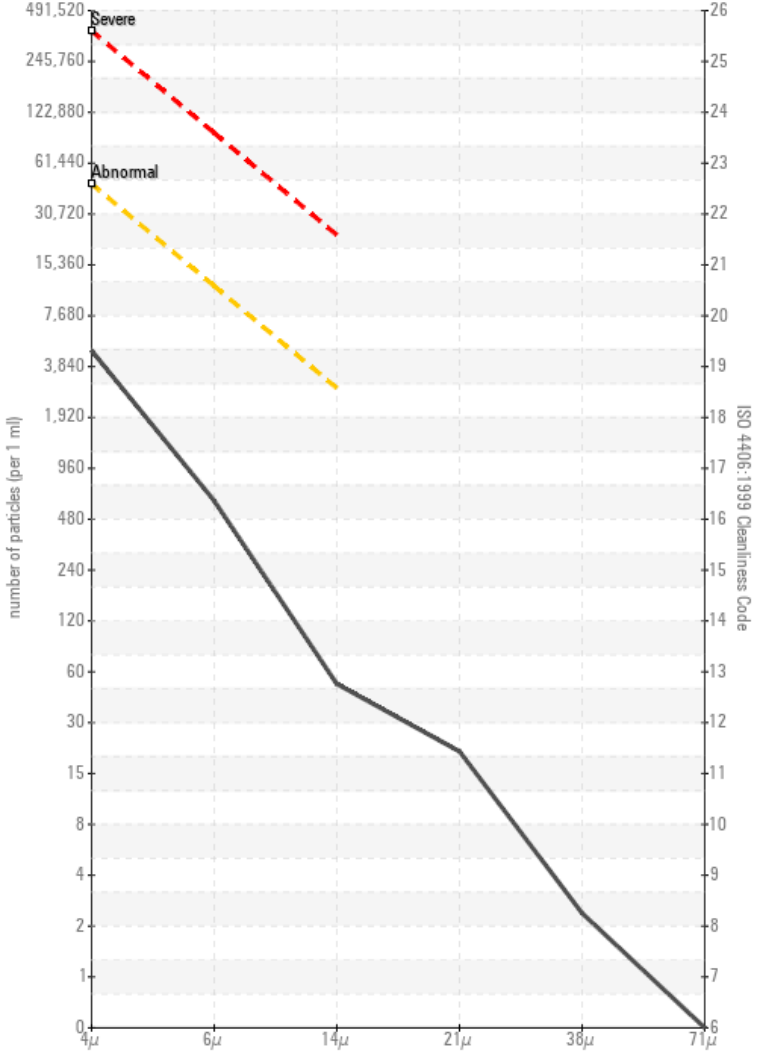
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

