



CONSTRUCTION EQUIPMENT

566115 TUCKER PAVING VOLVO EC380EL 314448 - HYDRAULIC SYSTEM



Sample No: VCP424859
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 566115 TUCKER PAVING



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SAMPLE INFORMATION

Sample Number	VCP424859	VCP341494	VCP364574	VCP349358
Sample Date	12 Jun 2023	24 Jan 2023	29 Aug 2022	12 Jan 2022
Machine Hours	3267	2612	2121	1186
Oil Hours	1200	1500	2121	1183
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	ATTENTION



OIL CONDITION

Visc @ 40°C	cSt	41.7	44.9	42.5	42.9
Acid Number (AN)	mg KOH/g	0.38	0.38	0.42	0.42



CONTAMINATION

Particles >4µm		---	5294	13921	46424
Particles >6µm		---	1256	2219	5416
Particles >14µm		---	100	113	105
ISO 4406:1999 (c)		---	20/17/14	21/18/14	23/20/14
Silicon	ppm	4	3	12	2
Sodium	ppm	0	<1	2	0
Potassium	ppm	1	0	0	0



WEAR METALS

Iron	ppm	4	2	20	<1
Copper	ppm	20	17	12	19
Lead	ppm	<1	0	3	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	1	0	3	<1
Chromium	ppm	2	1	<1	<1
Molybdenum	ppm	<1	<1	3	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	112	95	189	85
Magnesium	ppm	0	0	10	0
Zinc	ppm	482	433	435	503
Phosphorus	ppm	372	354	336	420
Barium	ppm	0	0	0	0
Boron	ppm	0	0	3	0

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0093
Unique No: 10550751
Signed: Don Baldrige
Report Date: 12 Jul 2023

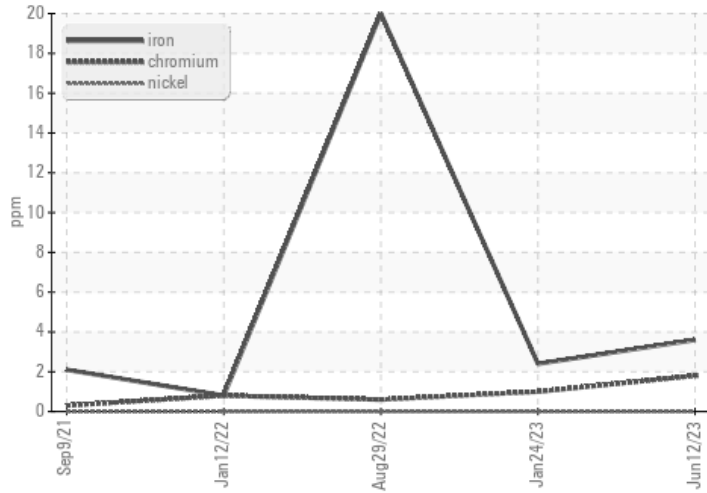


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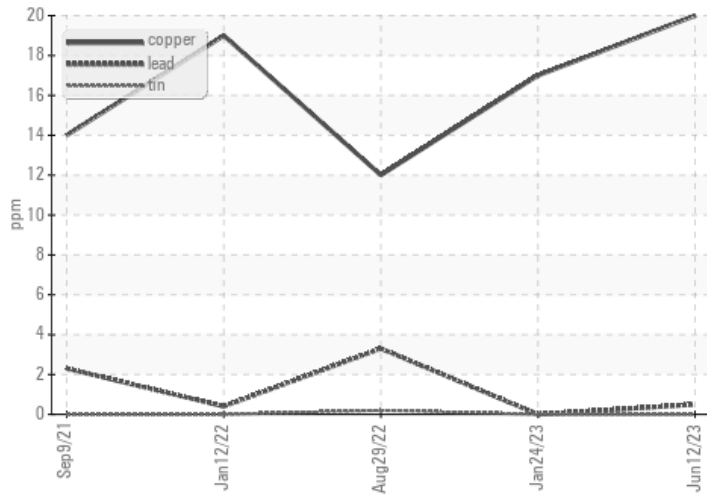


GRAPHS

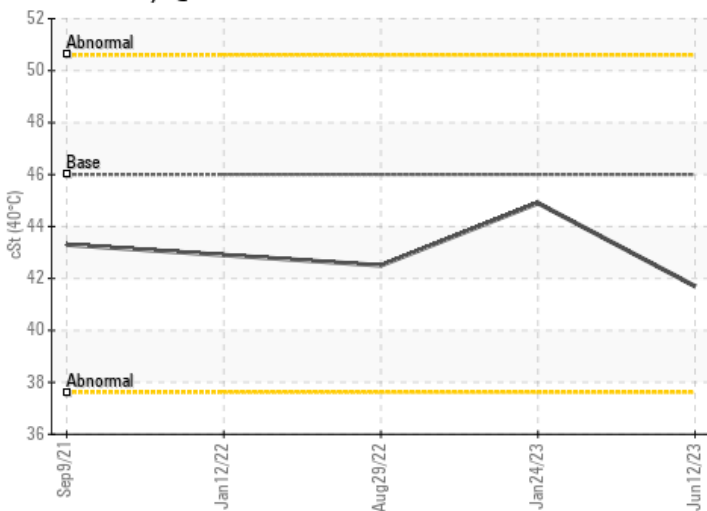
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

