



CONSTRUCTION EQUIPMENT

TUCKER PAVING - HYDRAULIC SYSTEM



Sample No: VCP386137
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP386137	VCP385817	VCP351645	VCP300898
Sample Date	12 Oct 2022	12 Oct 2022	23 Feb 2022	25 Feb 2021
Machine Hours	6141	6141	5157	4087
Oil Hours	1500	2000	1000	4087
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.6	44.78	44.7	46.8
Acid Number (AN)	mg KOH/g	0.35	0.34	0.47	0.439



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		109577	15046	11380	---
Particles >6µm		▲ 41675	■ 3685	■ 2924	---
Particles >14µm		▲ 2648	▲ 436	● 230	---
ISO 4406:1999 (c)		24/23/19	21/19/16	21/19/15	---
Silicon	ppm	■ 3	■ 16	■ 16	■ 7
Sodium	ppm	■ 1	■ 2	■ <1	■ 1
Potassium	ppm	■ 0	■ 0	■ <1	■ <1

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present 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	■ 2	■ 11	■ 8	■ 15
Copper	ppm	■ <1	■ 6	■ 5	■ 12
Lead	ppm	■ 0	■ 2	■ 2	■ 5
Tin	ppm	■ 0	■ <1	■ 0	■ <1
Aluminum	ppm	■ <1	■ 2	■ 2	■ 2
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 15	■ 2	■ 2	■ <1
Nickel	ppm	■ 0	■ 0	■ 0	■ <1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	■ 0	■ <1	■ 0	■ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 95	■ 78	■ 78	■ 61
Magnesium	ppm	■ 13	■ 6	■ 8	■ 3
Zinc	ppm	■ 421	■ 421	■ 447	■ 451
Phosphorus	ppm	■ 350	■ 327	■ 325	■ 348
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 3	■ 0	■ 2	■ <1

Depot: VOLVO0093
Unique No: 10254451
Signed: Don Baldrige
Report Date: 14 Dec 2022

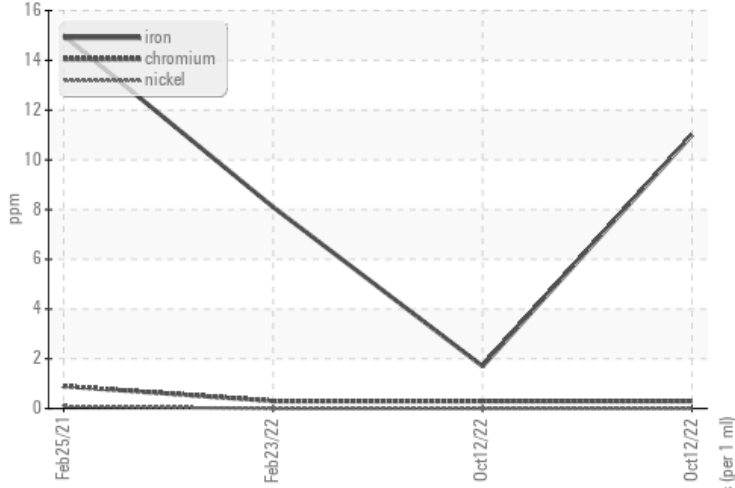


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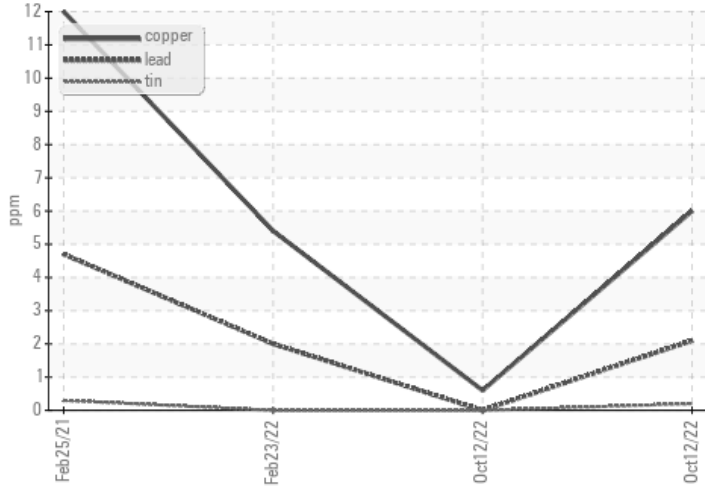


GRAPHS

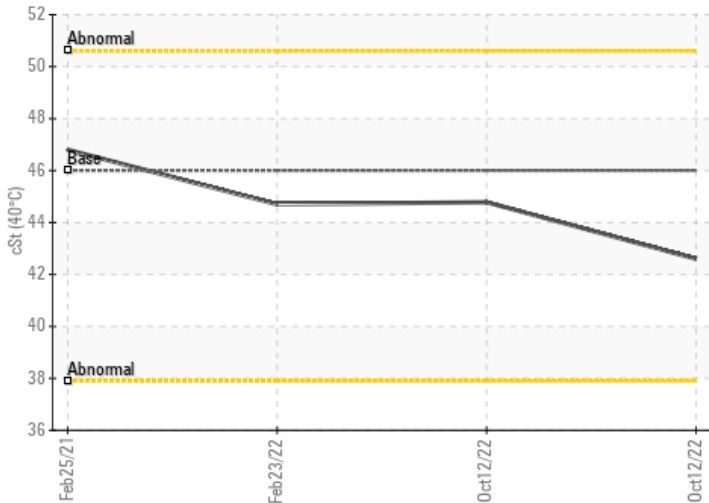
Ferrous Alloys



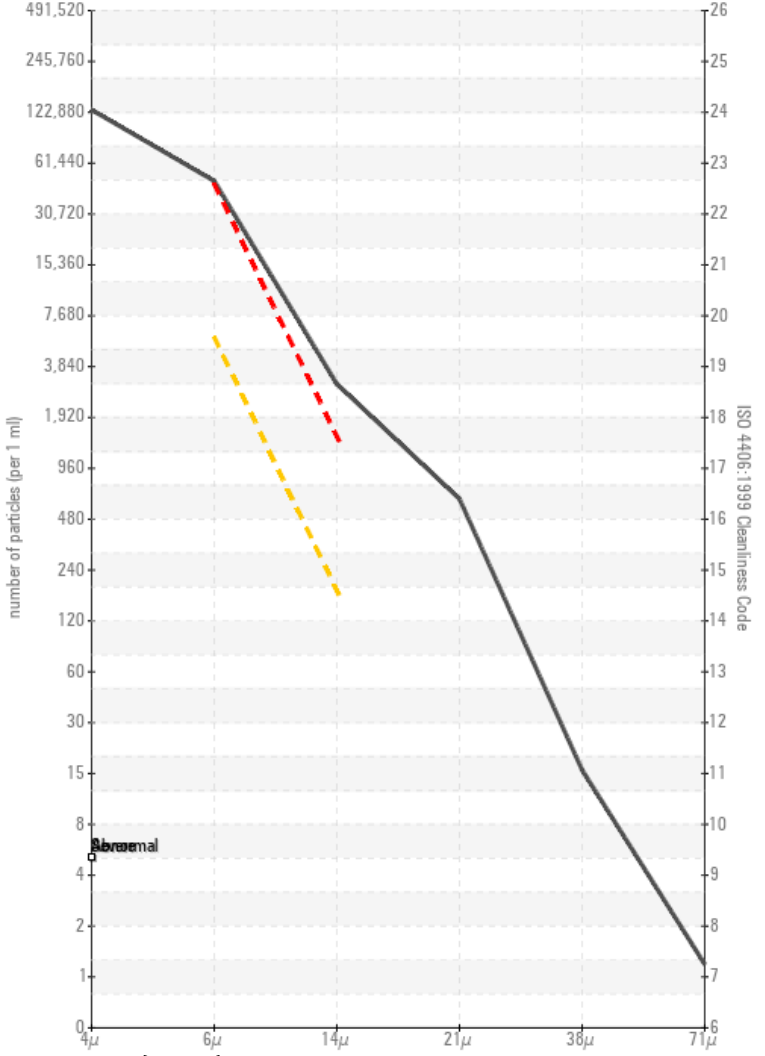
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

