



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO EC380 314346 - HYDRAULIC SYSTEM



Sample No: VCP451174
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP451174	VCP436216	VCP395984	VCP376925
Sample Date	18 May 2024	31 Oct 2023	22 Feb 2023	10 Aug 2022
Machine Hours	3416	2009	2268	1687
Oil Hours	0	0	2268	0
Oil Changed	Not Changd	N/A	Changed	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.1	42.7	43.3	43.2
Acid Number (AN)	mg KOH/g	0.46	0.97	0.45	0.41



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		19949	14221	5675	4216
Particles >6µm		3042	7763	85	970
Particles >14µm		116	3050	6	91
ISO 4406:1999 (c)		21/19/14	21/20/19	20/14/10	19/17/14
Silicon	ppm	3	3	3	3
Sodium	ppm	2	<1	0	0
Potassium	ppm	2	<1	1	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.



WEAR METALS

Iron	ppm	3	1	2	2
Copper	ppm	19	16	20	22
Lead	ppm	<1	0	0	<1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	1	<1	<1	0
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	0	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	60	61	67	76
Magnesium	ppm	<1	1	<1	0
Zinc	ppm	431	442	424	483
Phosphorus	ppm	383	362	367	406
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO0093
Unique No: 11056047
Signed: Wes Davis
Report Date: 30 May 2024

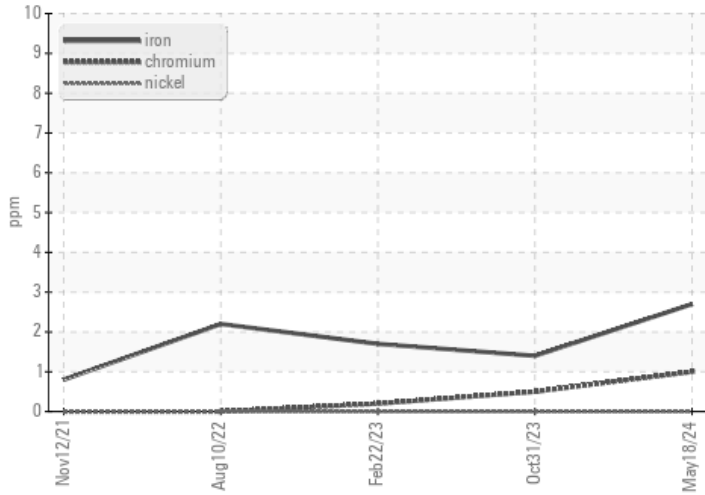


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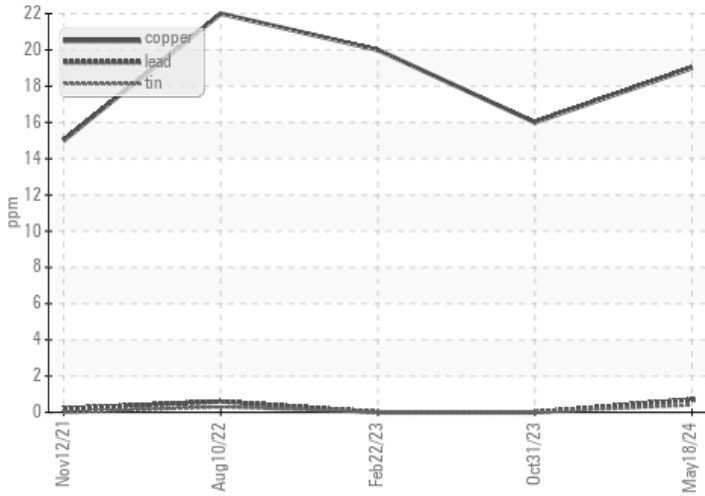


VOLVO GRAPHS

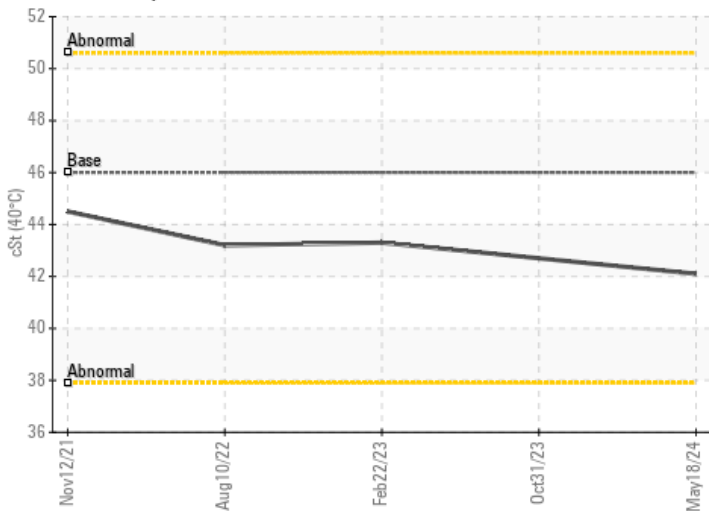
Ferrous Alloys



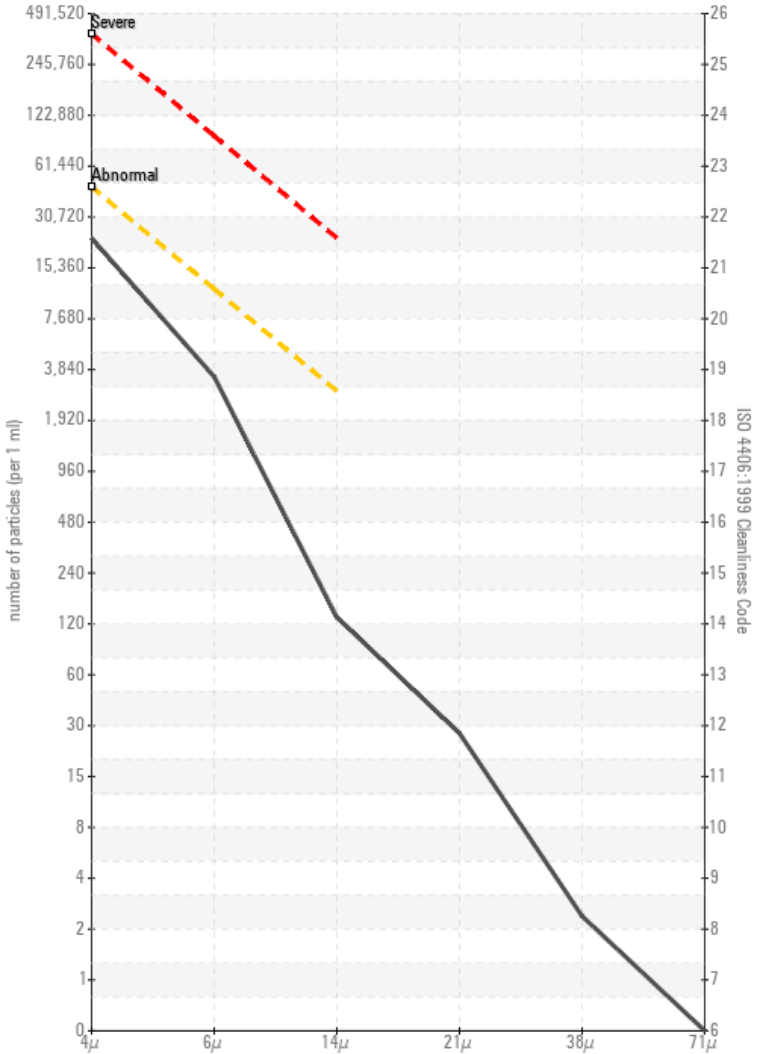
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

