



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO ECR145E 315117 - HYDRAULIC SYSTEM



Sample No: VCP415946
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP415946	VCP390726	VCP374618	VCP351178
Sample Date	13 Jun 2023	04 Nov 2022	10 Jun 2022	12 Jan 2022
Machine Hours	2778	2053	1521	1043
Oil Hours	0	2053	1500	1043
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 40°C	cSt	41.2	42.2	42.6	43.2
Acid Number (AN)	mg KOH/g	0.46	0.60	0.59	0.46



CONTAMINATION

Particles >4µm		97217	8153	9757	5982
Particles >6µm		32570	1540	2439	1262
Particles >14µm		1781	98	197	93
ISO 4406:1999 (c)		24/22/18	20/18/14	20/18/15	20/17/14
Silicon	ppm	6	8	7	6
Sodium	ppm	<1	<1	0	0
Potassium	ppm	0	0	<1	0

Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	2	3	2	<1
Copper	ppm	16	26	22	20
Lead	ppm	0	<1	1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	6	<1	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	0	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	99	77	77	92
Magnesium	ppm	11	0	<1	0
Zinc	ppm	464	471	489	506
Phosphorus	ppm	380	384	358	402
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO0093
Unique No: 10551885
Signed: Wes Davis
Report Date: 13 Jul 2023

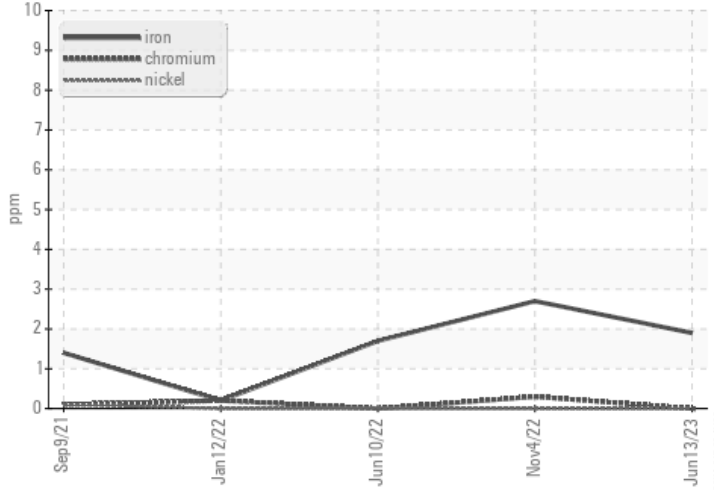


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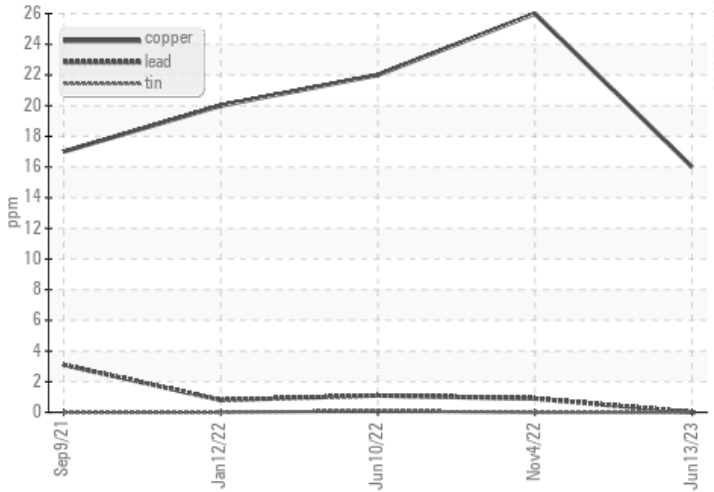


GRAPHS

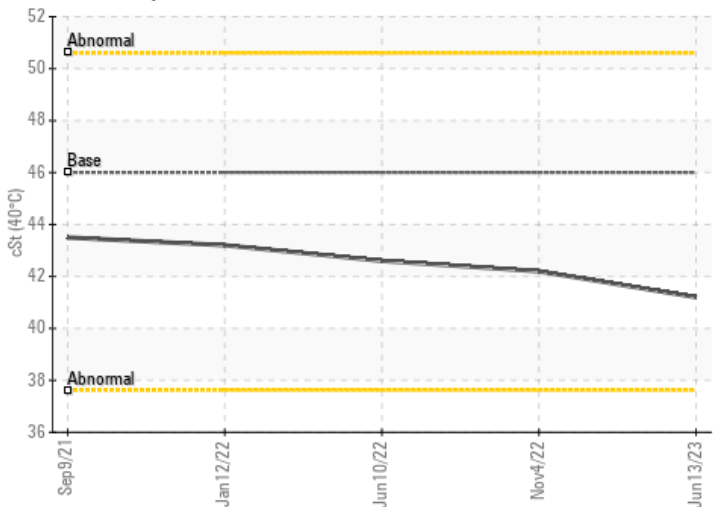
Ferrous Alloys



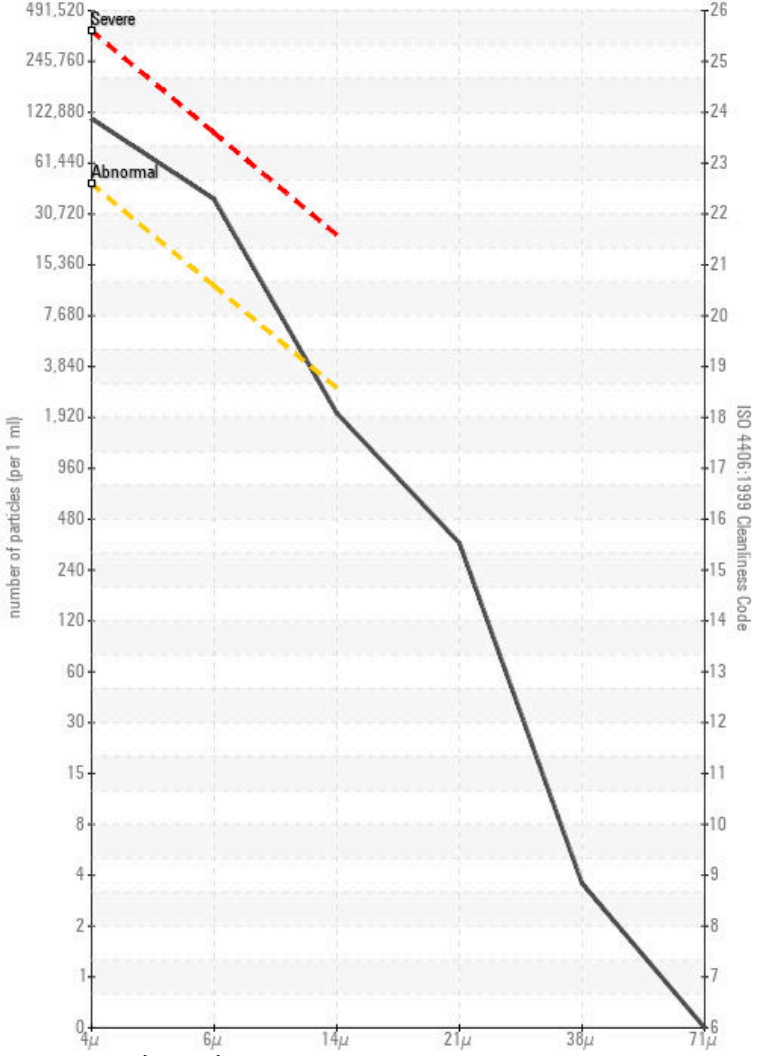
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

