



CONSTRUCTION EQUIPMENT

TUCKER VOLVO ECR145EL 314907 - HYDRAULIC SYSTEM



Sample No: VCP443946
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: TUCKER



SAMPLE INFORMATION

Sample Number	VCP443946	VCP444253	VCP424820	VCP385973
Sample Date	22 Jun 2024	06 Feb 2024	27 Mar 2023	03 Nov 2022
Machine Hours	3676	3067	2045	1534
Oil Hours	0	1067	2045	1534
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	46.2	42.2	42.8	42.0
Acid Number (AN)	mg KOH/g	0.43	0.46	0.53	0.61



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		16382	7391	1745	5079
Particles >6µm		3397	2111	226	932
Particles >14µm		41	176	15	43
ISO 4406:1999 (c)		21/19/13	20/18/15	18/15/11	20/17/13
Silicon	ppm	3	3	6	5
Sodium	ppm	2	2	2	<1
Potassium	ppm	0	0	<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	2	2	3
Copper	ppm	25	23	50	43
Lead	ppm	0	0	1	<1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	72	52	70	71
Magnesium	ppm	<1	0	<1	0
Zinc	ppm	364	408	524	478
Phosphorus	ppm	312	346	436	389
Barium	ppm	0	0	1	0
Boron	ppm	0	0	0	0

Depot: VOLVO0093
Unique No: 11113587
Signed: Wes Davis
Report Date: 09 Jul 2024

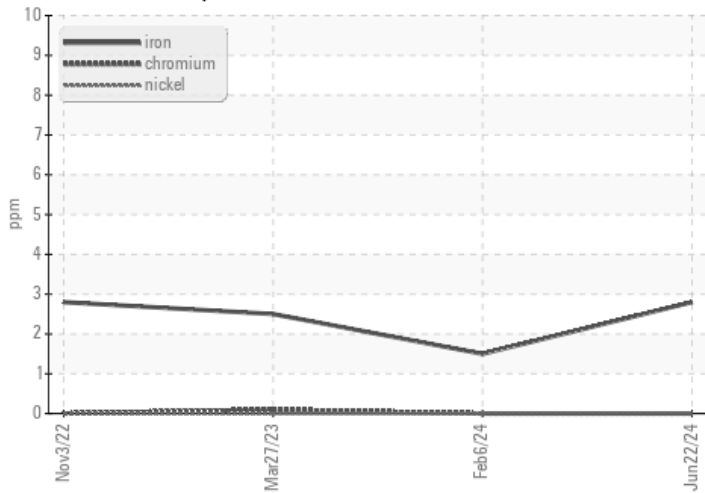


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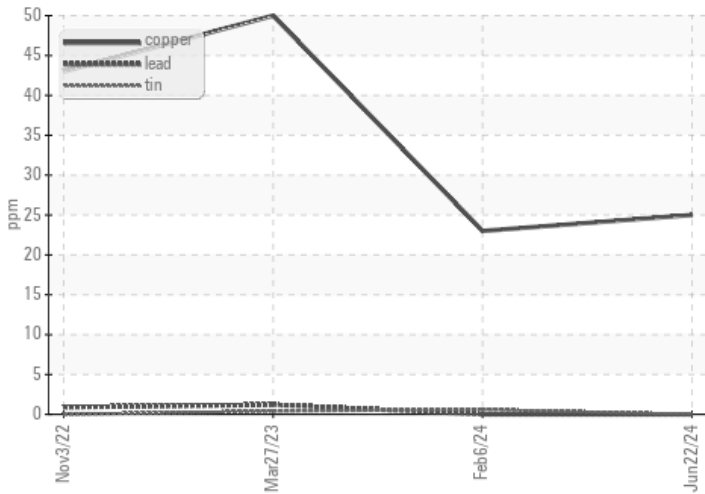


GRAPHS

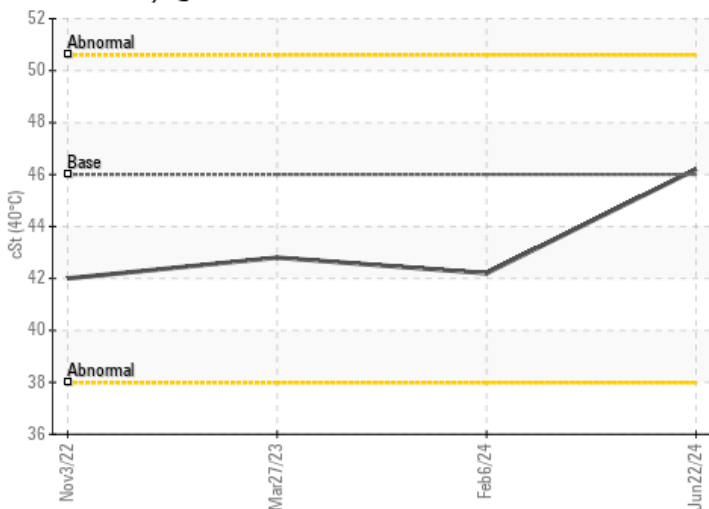
Ferrous Alloys



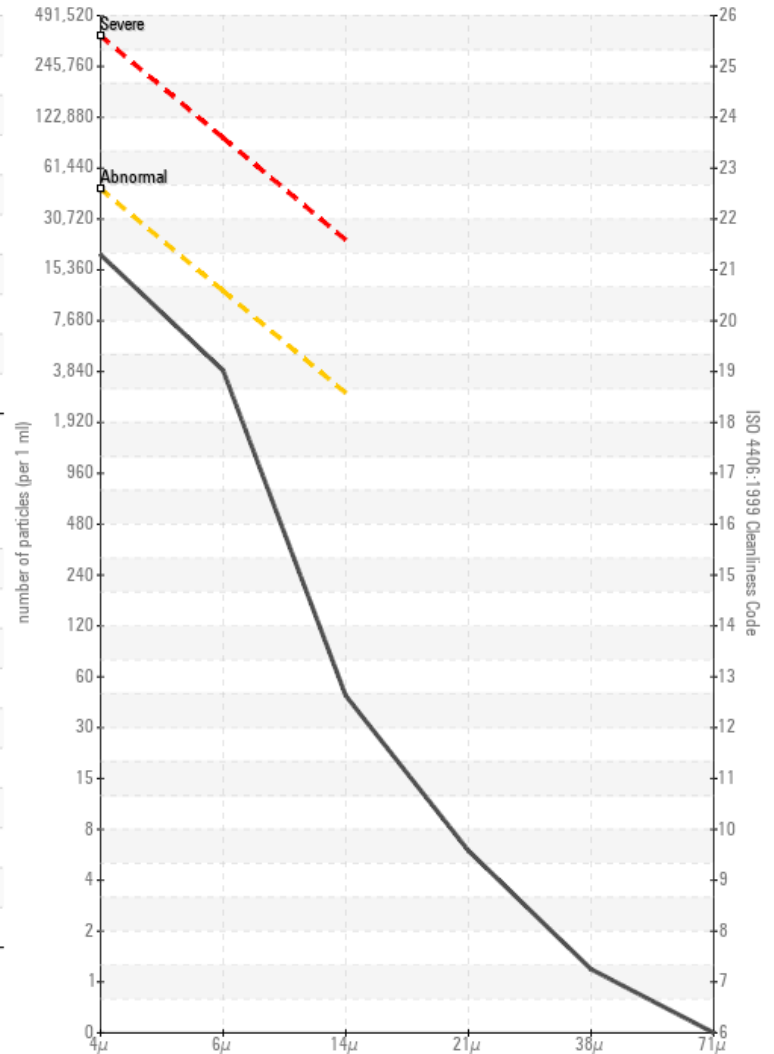
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

