



CONSTRUCTION EQUIPMENT

SPM595020 ROEBUCK CO VOLVO ECR145E 310615 - HYDRAULIC SYSTEM



Sample No: VCP432647
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM595020 ROEBUCK CO



SAMPLE INFORMATION

Sample Number	VCP432647	VCP359946	VCP320628	---
Sample Date	22 Aug 2023	14 Apr 2022	29 Sep 2021	---
Machine Hours	4306	3078	2494	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	43.6	43.5	43.8	---
Acid Number (AN)	mg KOH/g	0.68	0.61	0.707	---



CONTAMINATION

Particles >4µm		511	32710	1156	---
Particles >6µm		56	1188	83	---
Particles >14µm		15	16	9	---
ISO 4406:1999 (c)		16/13/11	22/17/11	17/14/10	---
Silicon	ppm	4	3	3	---
Sodium	ppm	0	1	0	---
Potassium	ppm	2	0	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	4	4	3	---
Copper	ppm	64	61	64	---
Lead	ppm	<1	1	<1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	<1	0	0	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	0	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	92	94	103	---
Magnesium	ppm	5	0	<1	---
Zinc	ppm	579	596	663	---
Phosphorus	ppm	510	561	554	---
Barium	ppm	1	0	0	---
Boron	ppm	0	0	0	---

Depot: VOLVO0093
Unique No: 10621332
Signed: Wes Davis
Report Date: 29 Aug 2023

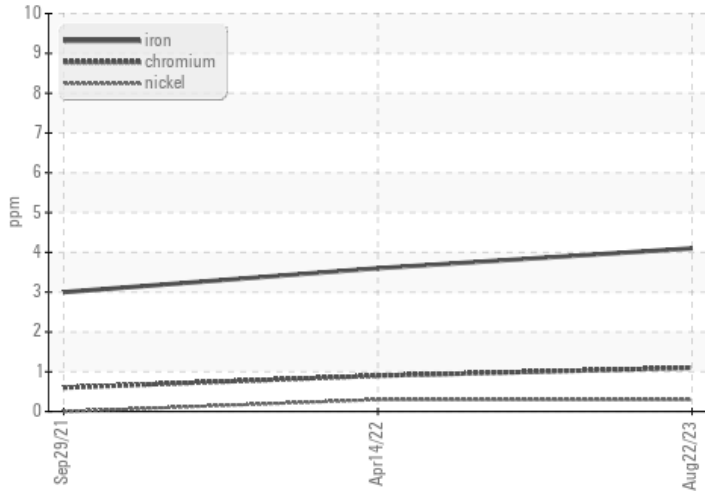


CONSTRUCTION EQUIPMENT

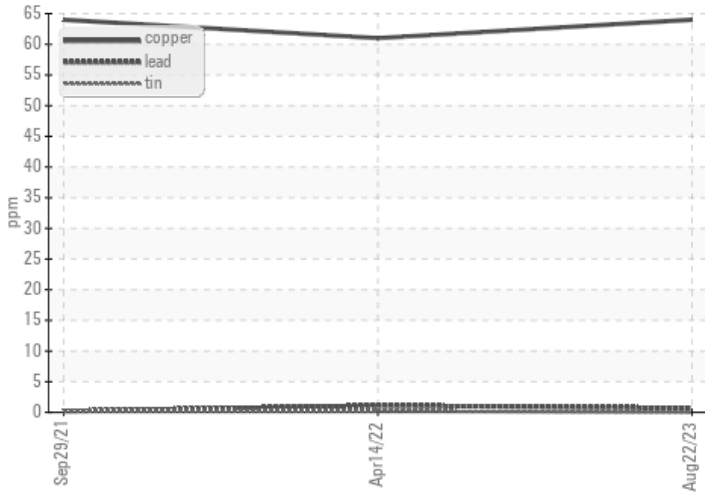


VOLVO GRAPHS

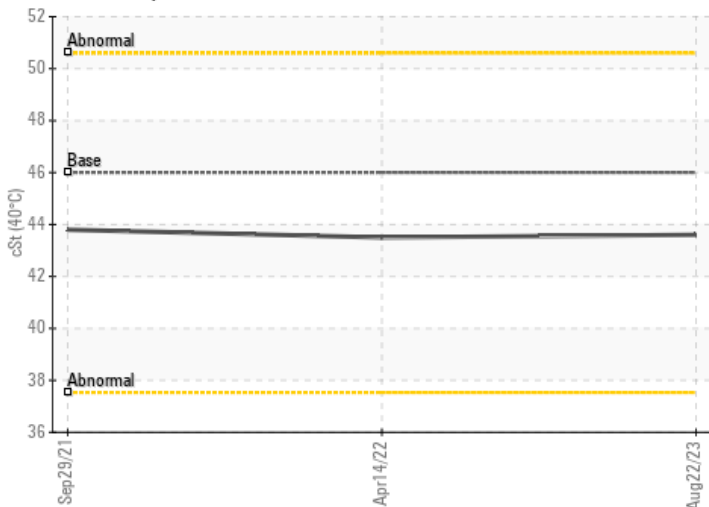
Ferrous Alloys



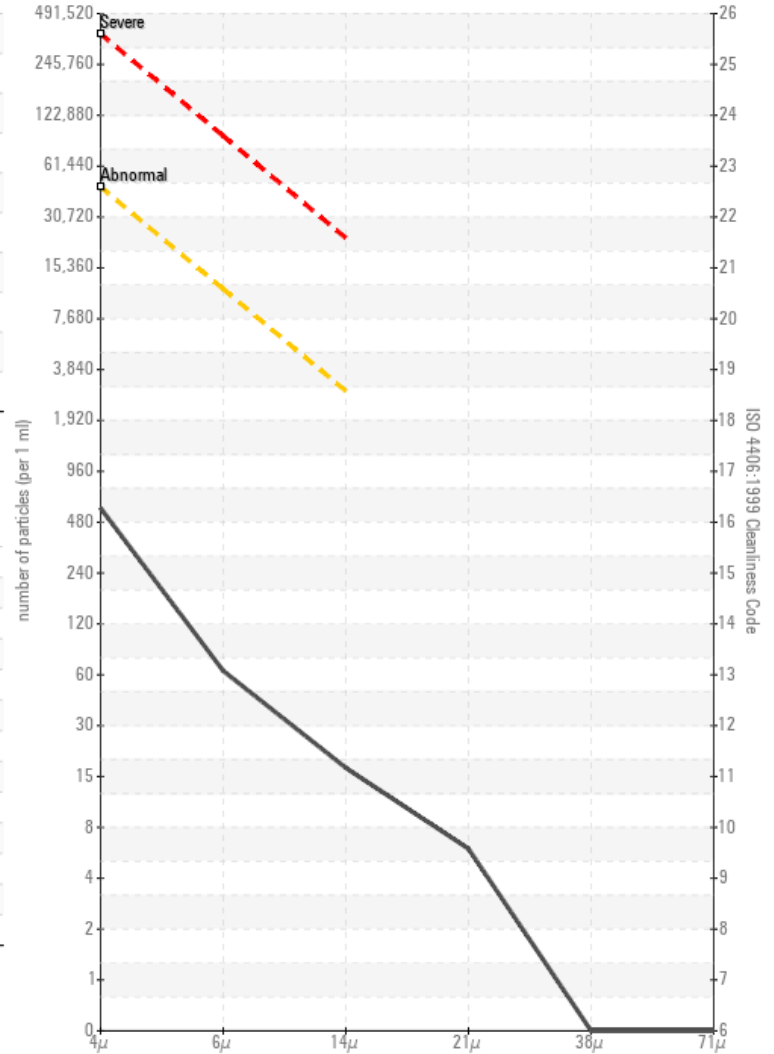
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

