



CONSTRUCTION EQUIPMENT

661511 PRIMORIS VOLVO A40G 352782 - HYDRAULIC SYSTEM



Sample No: VCP435951
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 661511 PRIMORIS



SAMPLE INFORMATION

Sample Number	VCP435951	VCP411093	VCP364277	---
Sample Date	29 Jan 2024	28 Apr 2023	15 Aug 2022	---
Machine Hours	4045	3519	2306	---
Oil Hours	4045	0	500	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	45.8	45.5	45.6	---
Acid Number (AN)	mg KOH/g	0.41	0.29	0.678	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		2717	3664	9756	---
Particles >6µm		552	901	2716	---
Particles >14µm		30	66	148	---
ISO 4406:1999 (c)		19/16/12	19/17/13	20/19/14	---
Silicon	ppm	5	9	7	---
Sodium	ppm	2	3	1	---
Potassium	ppm	<1	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	7	6	---
Copper	ppm	2	3	5	---
Lead	ppm	2	2	2	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	1	6	3	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	122	135	143	---
Magnesium	ppm	9	9	1	---
Zinc	ppm	461	445	445	---
Phosphorus	ppm	347	341	357	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	0	0	---

Depot: VOLVO0093
Unique No: 10901132
Signed: Wes Davis
Report Date: 29 Feb 2024

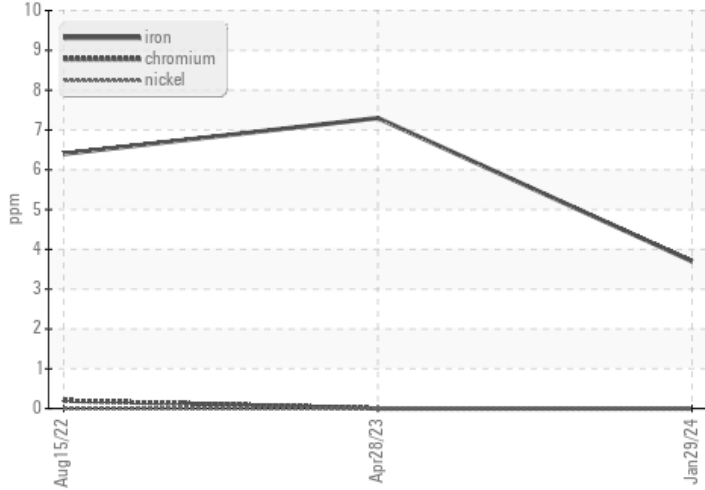


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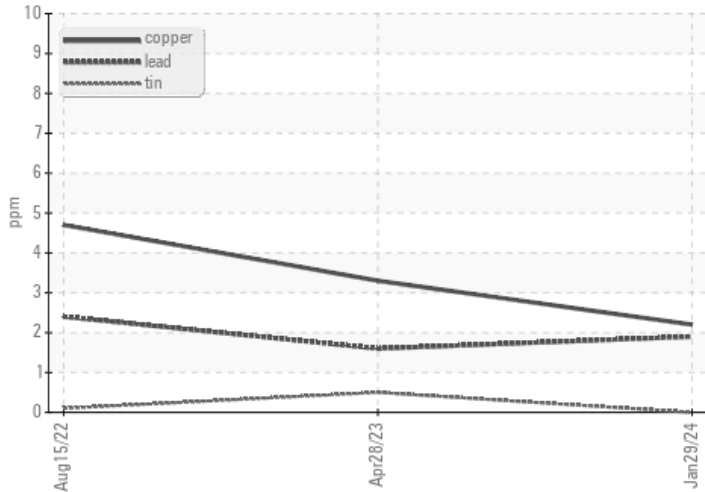


GRAPHS

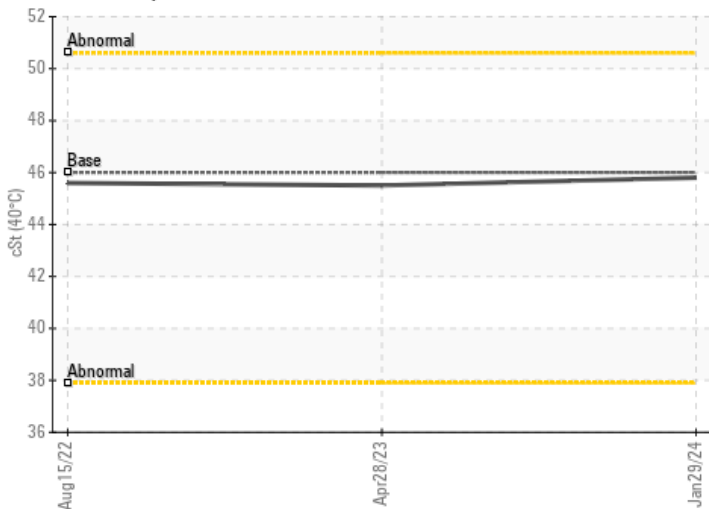
Ferrous Alloys



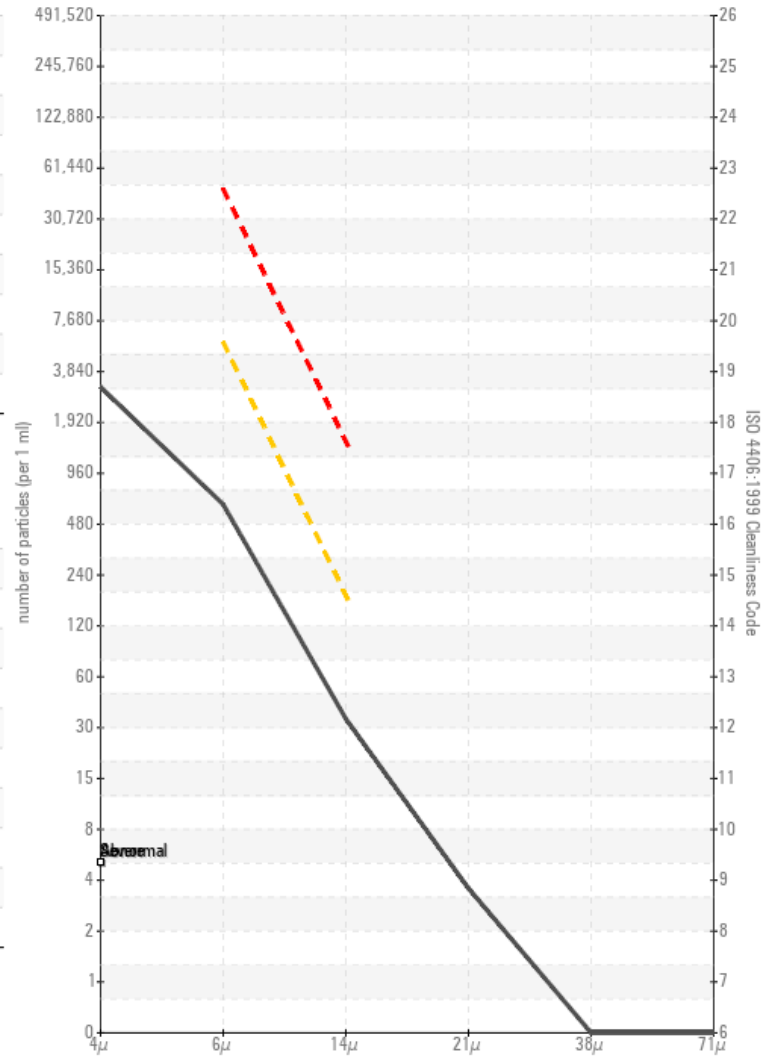
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

