



CONSTRUCTION EQUIPMENT

SPM660661-10 VOLVO EC200 314412 - HYDRAULIC SYSTEM



Sample No: VCP431849
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: SPM660661-10



SAMPLE INFORMATION

Sample Number	VCP431849	VCP354118	---	---
Sample Date	03 Feb 2024	04 Aug 2022	---	---
Machine Hours	2089	974	---	---
Oil Hours	0	1500	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	45.9	43.4	---	---
Acid Number (AN)	mg KOH/g	0.50	0.54	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		21540	8882	---	---
Particles >6µm		528	630	---	---
Particles >14µm		24	17	---	---
ISO 4406:1999 (c)		22/16/12	20/16/11	---	---
Silicon	ppm	9	6	---	---
Sodium	ppm	2	0	---	---
Potassium	ppm	2	1	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	14	6	---	---
Copper	ppm	35	35	---	---
Lead	ppm	2	1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	2	<1	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	<1	<1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	0	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	315	105	---	---
Magnesium	ppm	2	2	---	---
Zinc	ppm	478	507	---	---
Phosphorus	ppm	406	388	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Depot: VOLVO0093
Unique No: 10875565
Signed: Don Baldrige
Report Date: 15 Feb 2024

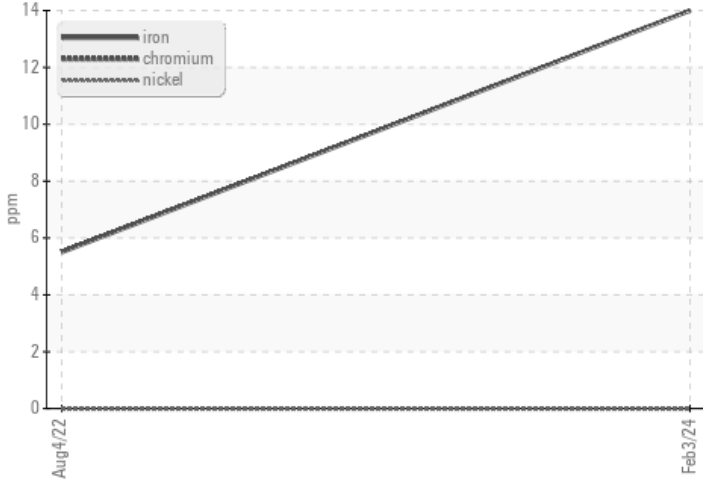


CONSTRUCTION EQUIPMENT

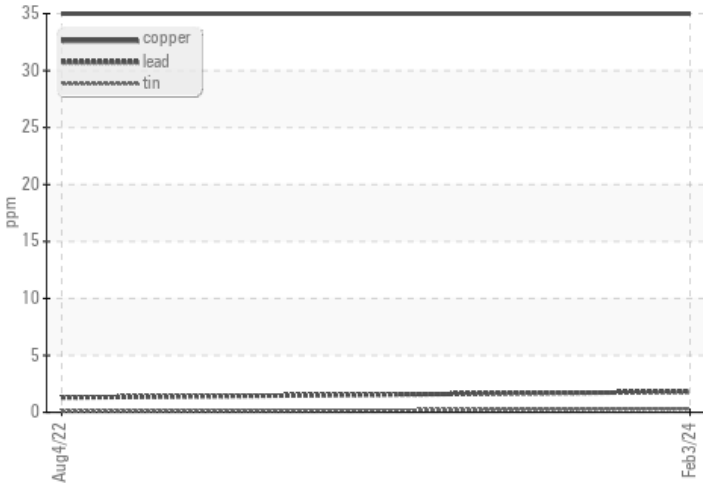


GRAPHS

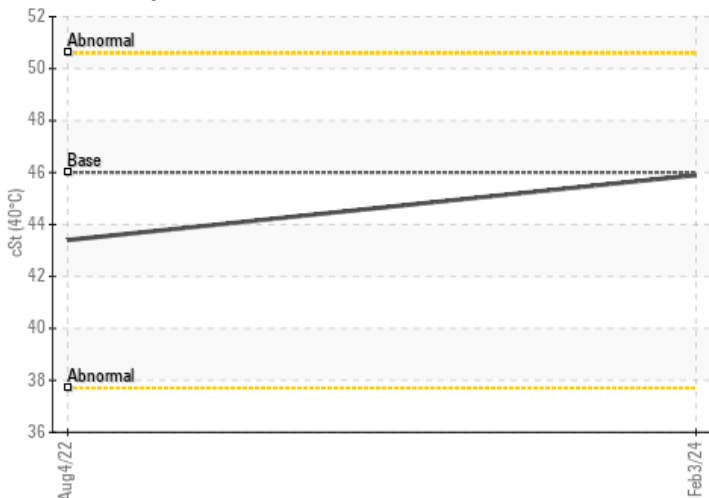
Ferrous Alloys



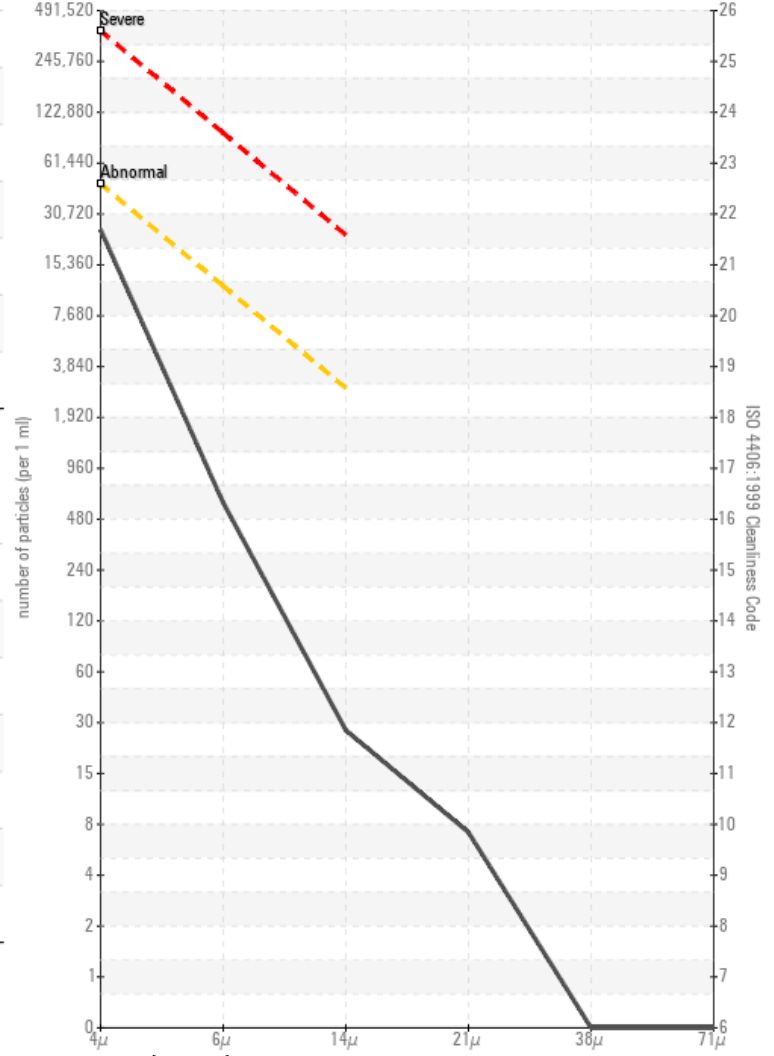
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

