



CONSTRUCTION EQUIPMENT

VOLVO EC350EL 314163 - HYDRAULIC SYSTEM



Sample No: VCP437071
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



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SAMPLE INFORMATION

Sample Number	VCP437071	VCP424865	VCP354548	---
Sample Date	13 Mar 2024	30 May 2023	08 Jun 2022	---
Machine Hours	2494	1984	1005	---
Oil Hours	0	2000	1500	---
Oil Changed	Not Chngd	Changed	Not Chngd	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	43.4	43.4	43.6	---
Acid Number (AN)	mg KOH/g	0.54	0.52	0.43	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		17668	21478	8714	---
Particles >6µm		5189	3935	1759	---
Particles >14µm		370	141	59	---
ISO 4406:1999 (c)		21/20/16	22/19/14	20/18/13	---
Silicon	ppm	3	2	2	---
Sodium	ppm	2	<1	0	---
Potassium	ppm	<1	0	<1	---



WEAR METALS

Iron	ppm	3	3	2	---
Copper	ppm	26	22	18	---
Lead	ppm	2	0	<1	---
Tin	ppm	3	0	0	---
Aluminum	ppm	<1	0	<1	---
Chromium	ppm	<1	0	0	---
Molybdenum	ppm	<1	0	0	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	0	0	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	58	64	97	---
Magnesium	ppm	<1	0	<1	---
Zinc	ppm	422	468	499	---
Phosphorus	ppm	346	392	376	---
Barium	ppm	0	0	0	---
Boron	ppm	0	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.

Depot: VOLVO0093
Unique No: 10940523
Signed: Wes Davis
Report Date: 25 Mar 2024

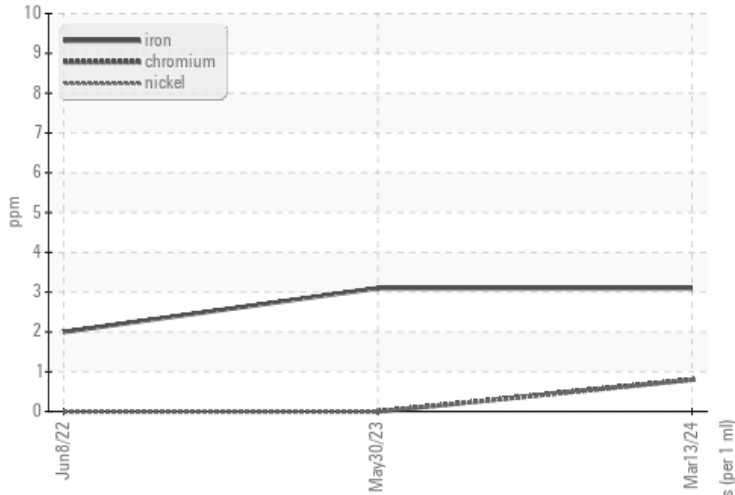


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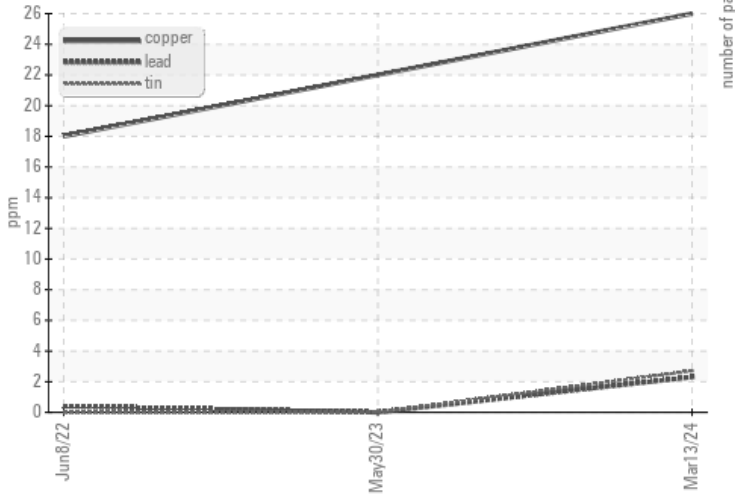


GRAPHS

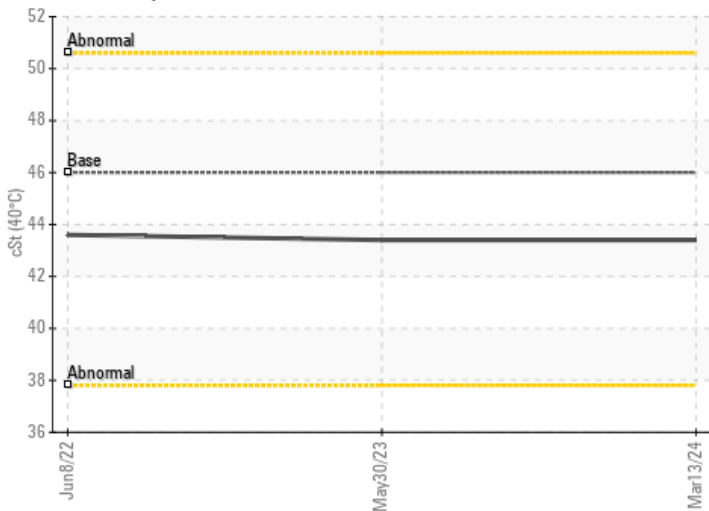
Ferrous Alloys



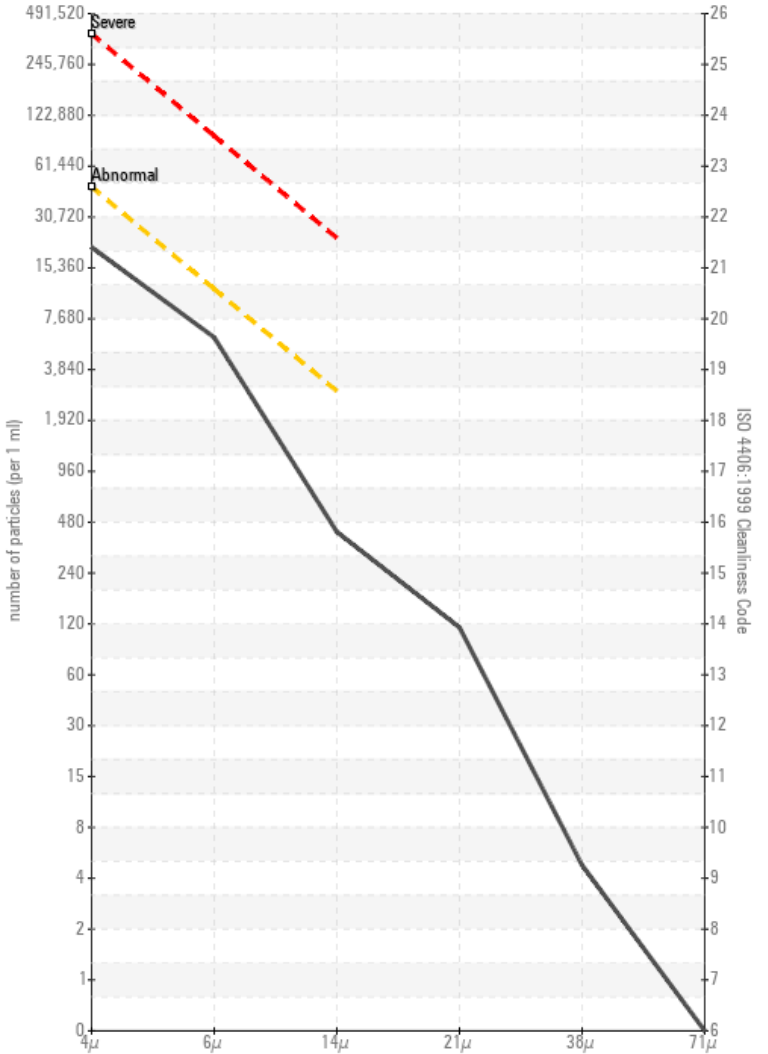
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

