



# CONSTRUCTION EQUIPMENT

SW30008 VOLVO EC950FL 410035 - HYDRAULIC SYSTEM



**Sample No:** VCP358179  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** SW30008



## SAMPLE INFORMATION

Sample Number	VCP358179	VCP414450	---	---
Sample Date	15 Feb 2024	15 Dec 2023	---	---
Machine Hours	2000	1985	---	---
Oil Hours	2000	0	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	NORMAL	ATTENTION	---	---

**ARNOLD MACHINERY COMPANY**  
 3330 NORTH YELLOWSTONE HIGHWAY  
 IDAHO FALLS, ID  
 US 83401  
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 T: (208)523-0822  
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## OIL CONDITION

Visc @ 40°C	cSt	█ 46.0	█ 46.3	---	---
Acid Number (AN)	mg KOH/g	█ 0.49	█ 0.48	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		█ 994	▲ 6627	---	---
Particles >6µm		█ 106	█ 1296	---	---
Particles >14µm		█ 7	█ 76	---	---
ISO 4406:1999 (c)		17/14/10	20/17/13	---	---
Silicon	ppm	█ <1	█ <1	---	---
Sodium	ppm	█ 2	█ 1	---	---
Potassium	ppm	█ 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	█ 0	█ 0	---	---
Copper	ppm	█ 3	█ 3	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 0	█ 0	---	---
Chromium	ppm	█ 0	█ 0	---	---
Molybdenum	ppm	█ 0	█ 0	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ 0	█ 0	---	---
Vanadium	ppm	0	<1	---	---



## ADDITIVES

Calcium	ppm	█ 59	█ 87	---	---
Magnesium	ppm	█ 0	█ 1	---	---
Zinc	ppm	█ 355	█ 414	---	---
Phosphorus	ppm	█ 299	█ 329	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 0	█ 0	---	---

**Depot:** VOLVO0077  
**Unique No:** 10898312  
**Signed:** Wes Davis  
**Report Date:** 27 Feb 2024

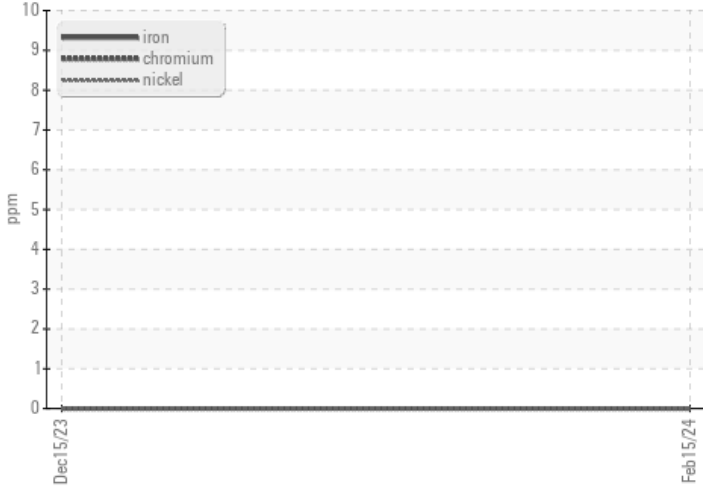


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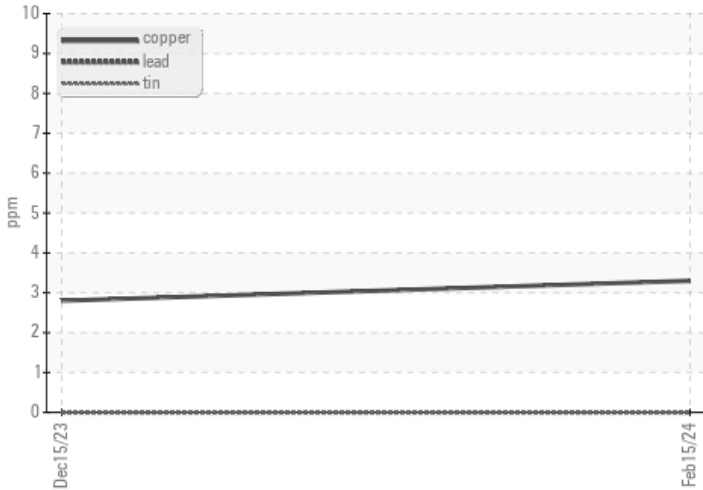


## VOLVO GRAPHS

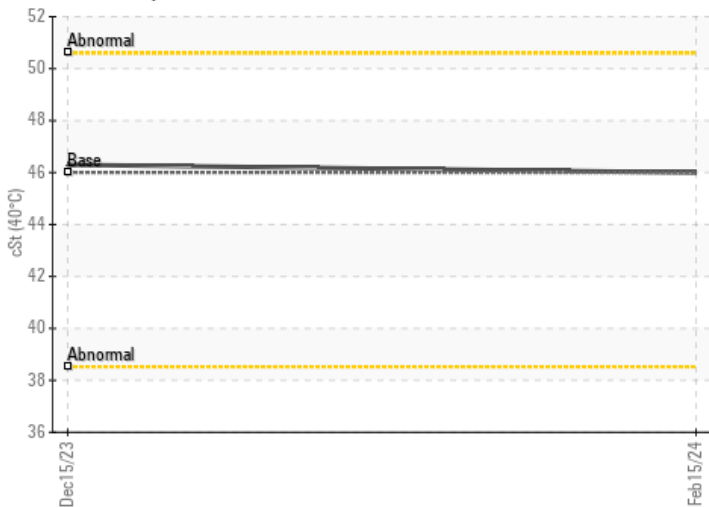
### Ferrous Alloys



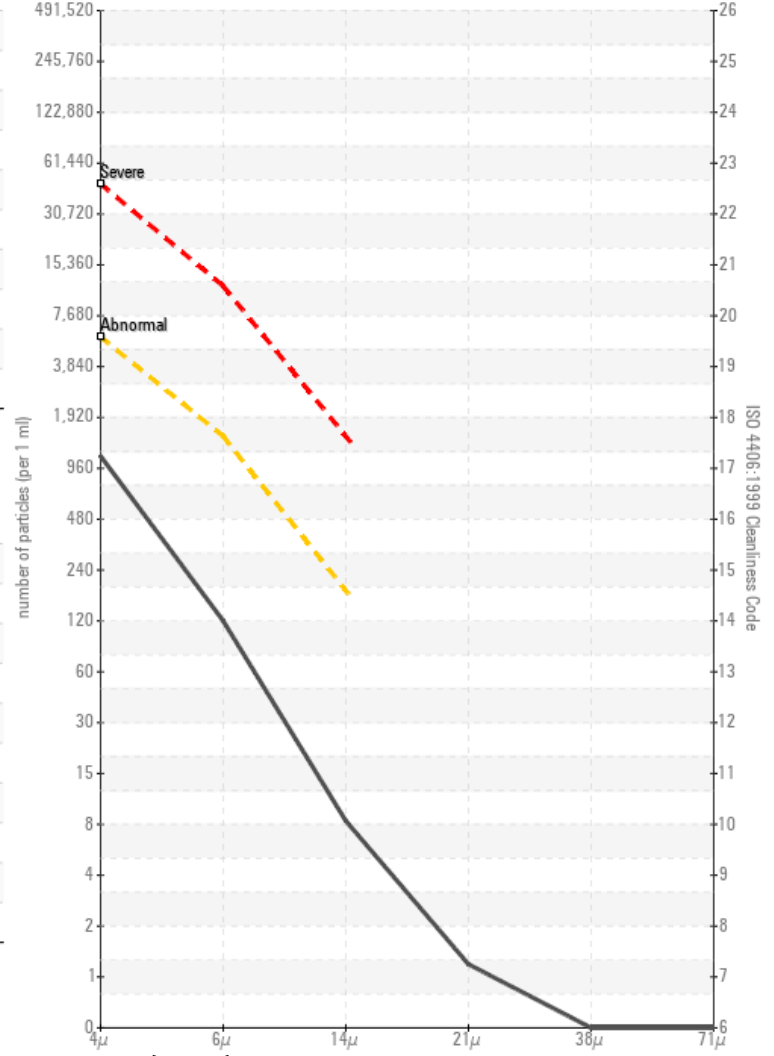
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

