



# CONSTRUCTION EQUIPMENT

## SW1021030 RANGO VOLVO EC950F 410018 - HYDRAULIC SYSTEM



**Sample No:** VCP406328  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SW1021030 RANGO



### SAMPLE INFORMATION

Sample Number	VCP406328	---	---	---
Sample Date	08 Jul 2023	---	---	---
Machine Hours	6412	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

**ARNOLD MACHINERY COMPANY**  
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### OIL CONDITION

Visc @ 40°C	cSt	█ 45.6	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.22	---	---	---



### CONTAMINATION

Particles >4µm		▲ 25793	---	---	---
Particles >6µm		▲ 4611	---	---	---
Particles >14µm		▲ 327	---	---	---
ISO 4406:1999 (c)		22/19/16	---	---	---
Silicon	ppm	█ 2	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 0	---	---	---

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	█ 12	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	█ 62	---	---	---
Magnesium	ppm	█ 4	---	---	---
Zinc	ppm	█ 163	---	---	---
Phosphorus	ppm	█ 155	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

**Depot:** VOLVO6174  
**Unique No:** 10562572  
**Signed:** Angela Borella  
**Report Date:** 19 Jul 2023

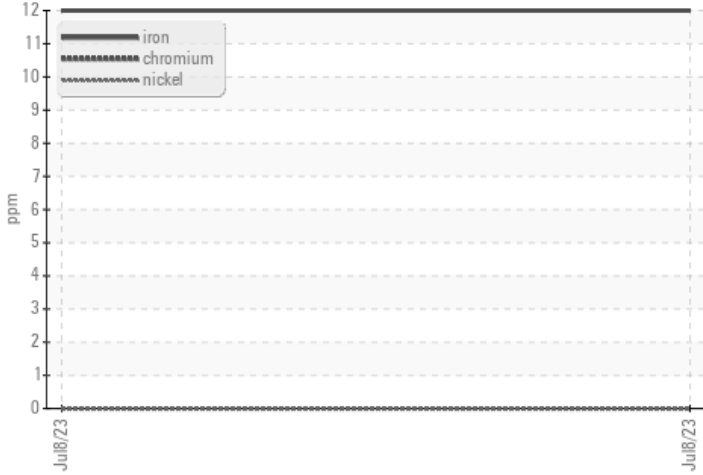


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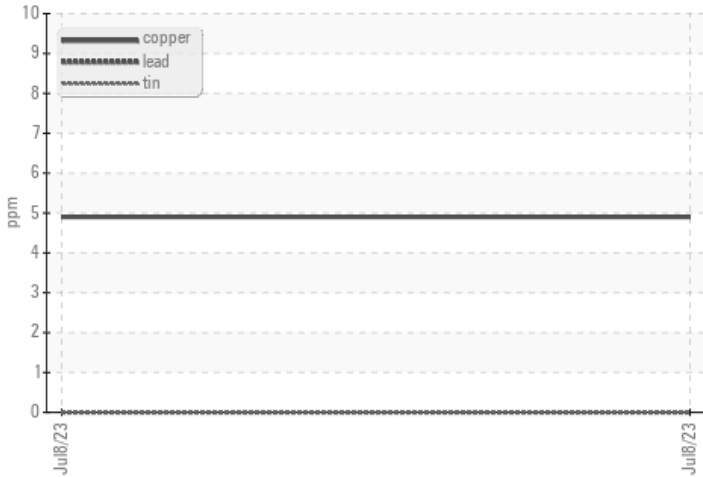


## GRAPHS

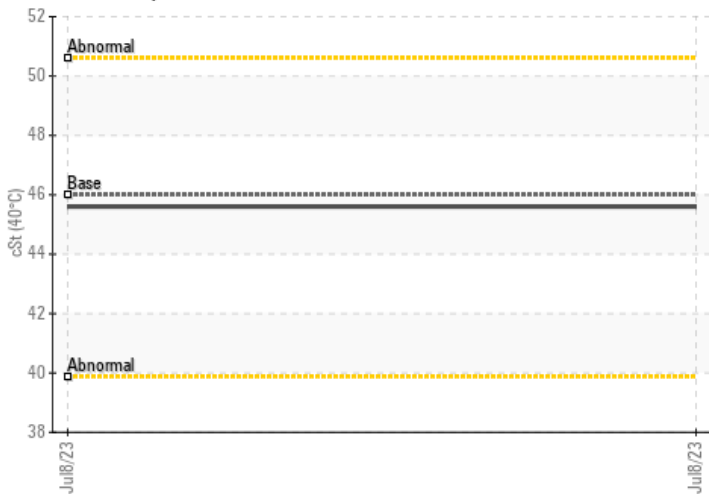
### Ferrous Alloys



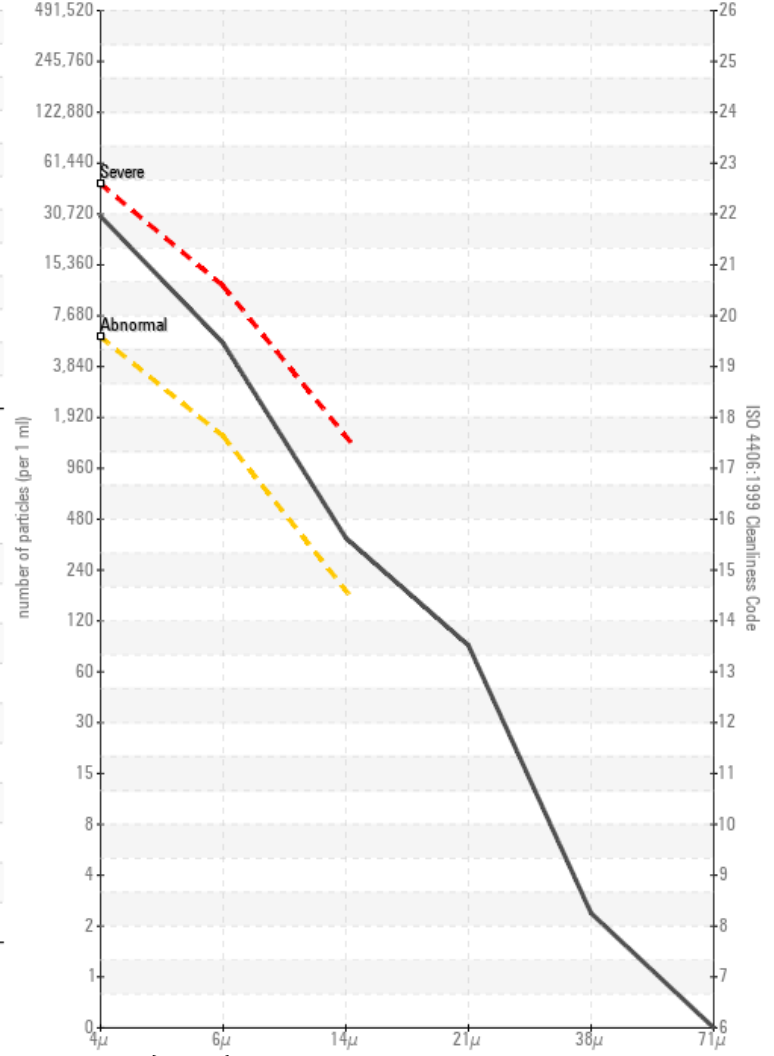
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

