



# CONSTRUCTION EQUIPMENT

8-388241 VOLVO EC460CL 110480 - HYDRAULIC SYSTEM



**Sample No:** VCP394614  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 8-388241



## SAMPLE INFORMATION

Sample Number	VCP394614	---	---	---
Sample Date	12 Dec 2023	---	---	---
Machine Hours	10906	---	---	---
Oil Hours	800	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

### STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD  
 MISSISSAUGA, ON  
 CA L4W 4L4

Contact: Janice Cripps  
 jcripps@strongco.com  
 T: (905)565-3876  
 F: (905)670-2338

## OIL CONDITION

Visc @ 40°C	cSt	█ 41.9	---	---	---
-------------	-----	--------	-----	-----	-----

## CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 112558	---	---	---
Particles >6µm		█ 9856	---	---	---
Particles >14µm		█ 186	---	---	---
ISO 4406:1999 (c)		24/20/15	---	---	---
Silicon	ppm	▲ 51	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 3	---	---	---

## WEAR METALS

PQ		█ 0	---	---	---
Iron	ppm	◆ 93	---	---	---
Copper	ppm	█ 30	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 10	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	█ 86	---	---	---
Magnesium	ppm	█ 3	---	---	---
Zinc	ppm	█ 419	---	---	---
Phosphorus	ppm	█ 348	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 2	---	---	---

## Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition. Iron ppm levels are severe. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of dirt present in the oil. High amount of ingressed dirt has caused abrasive wear to the component. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** SHEMIS  
**Unique No:** 5696610  
**Signed:** Kevin Marson  
**Report Date:** 18 Dec 2023

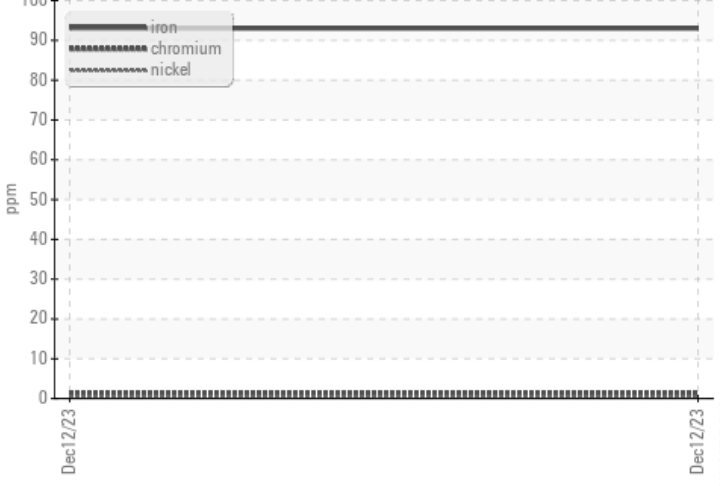


# CONSTRUCTION EQUIPMENT

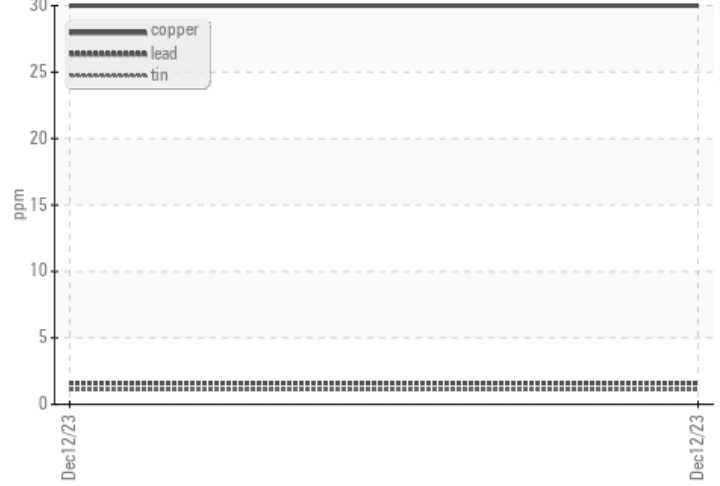


## VOLVO GRAPHS

### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count

