



# CONSTRUCTION EQUIPMENT

## VOLVO G960 43149 - HYDRAULIC SYSTEM



**Sample No:** VCP394104  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP394104	---	---	---
Sample Date	26 Feb 2024	---	---	---
Machine Hours	6405	---	---	---
Oil Hours	6405	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

**STRONGCO EQUIP (AB)**  
 6 - 38403 BURNT LAKE TRAIL  
 RED DEER COUNTY, AB  
 CA T4S 2L4  
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### OIL CONDITION

Visc @ 40°C	cSt	▲ 25.6	---	---	---
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### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 123384	---	---	---
Particles >6µm		▲ 18941	---	---	---
Particles >14µm		■ 92	---	---	---
ISO 4406:1999 (c)		24/21/14	---	---	---
Silicon	ppm	▲ 22	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 3	---	---	---

### Diagnosis

Check seals and/or filters for points of contaminant entry. We advise that you check all areas where dirt can enter the system. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Viscosity of sample indicates oil is within ISO 22 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



### WEAR METALS

PQ		■ 4	---	---	---
Iron	ppm	▲ 56	---	---	---
Copper	ppm	■ 3	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	7	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---



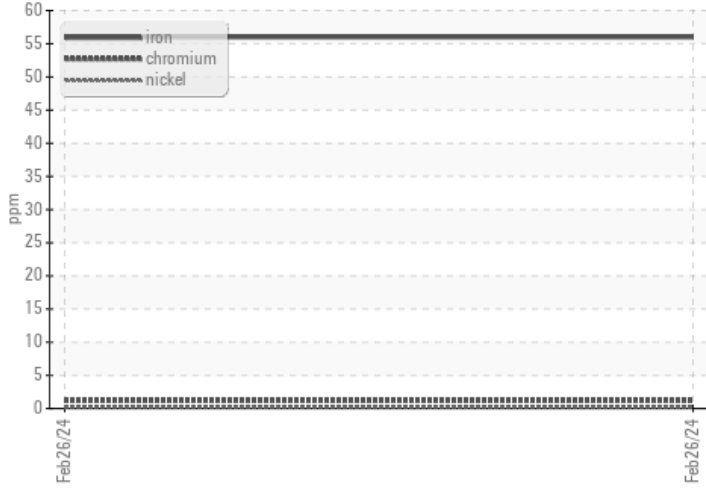
### ADDITIVES

Calcium	ppm	933	---	---	---
Magnesium	ppm	■ 9	---	---	---
Zinc	ppm	■ 597	---	---	---
Phosphorus	ppm	■ 493	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 17	---	---	---

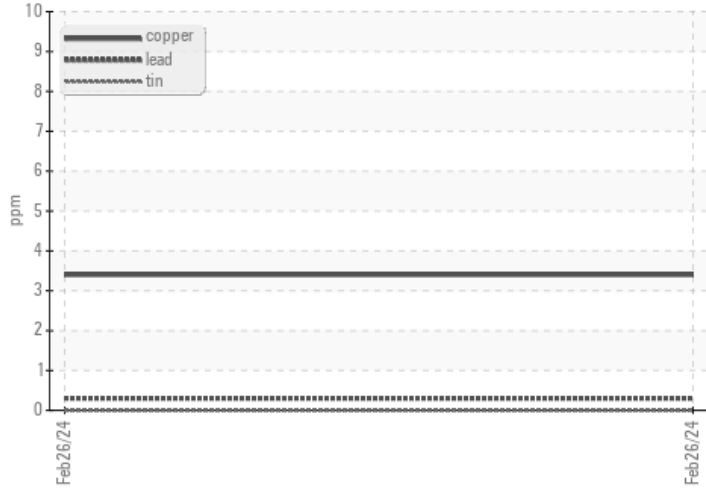
**Depot:** VOLVO9652  
**Unique No:** 5735524  
**Signed:** Kevin Marson  
**Report Date:** 28 Feb 2024

**VOLVO** **GRAPHS**

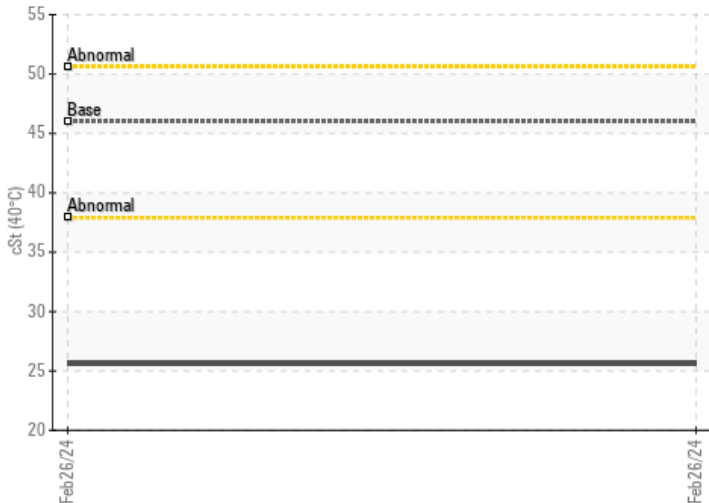
▲ Ferrous Alloys



Non-ferrous Metals



▲ Viscosity @ 40°C



▲ Particle Count

