



# CONSTRUCTION EQUIPMENT

## SWO-069538 LHOIST VOLVO L350H 1007 - HYDRAULIC SYSTEM



**Sample No:** VCP444434  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWO-069538 LHOIST



### SAMPLE INFORMATION

Sample Number	<b>VCP444434</b>	VCP445736	VCP402619	VCP373066
Sample Date	<b>09 Feb 2024</b>	17 Nov 2023	05 Apr 2023	15 Apr 2022
Machine Hours	<b>1802</b>	17555	1551	12518
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>ABNORMAL</b>	ABNORMAL	NORMAL	NORMAL

### COWIN EQUIPMENT COMPANY

2238 PINSON VALLEY PARKWAY  
 BIRMINGHAM, AL  
 US 35217  
 Contact: BRANTLY CLAY  
 bclay@cowin.com  
 T:  
 F: (205)856-2106



### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 54.4</b>	▲ 52.58	■ 43.0	■ 43.9
Acid Number (AN)	mg KOH/g	<b>■ 0.41</b>	■ 0.30	■ 0.33	■ 0.33



### CONTAMINATION

Water	%	<b>▲ 0.262</b>	NEG	NEG	NEG
Particles >4µm		---	18050	26472	8636
Particles >6µm		---	■ 1038	■ 428	■ 1687
Particles >14µm		---	■ 22	■ 18	■ 70
ISO 4406:1999 (c)		---	21/17/12	22/16/11	20/18/13
Silicon	ppm	■ 2	■ 2	■ 2	■ 2
Sodium	ppm	■ 2	■ 0	■ 2	■ 0
Potassium	ppm	■ 0	■ 2	■ 2	■ <1



### WEAR METALS

Iron	ppm	■ 15	■ 7	■ 10	■ 1
Copper	ppm	■ 2	■ 1	■ 2	■ <1
Lead	ppm	■ 2	■ 1	■ 3	■ <1
Tin	ppm	■ 1	■ 0	■ 0	■ 0
Aluminum	ppm	■ 0	■ 2	■ 0	■ 0
Chromium	ppm	■ <1	■ <1	■ 1	■ <1
Molybdenum	ppm	■ 0	■ <1	■ <1	■ 1
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ 0	■ <1	■ 0
Vanadium	ppm	0	0	0	0



### ADDITIVES

Calcium	ppm	■ 81	■ 92	■ 119	■ 126
Magnesium	ppm	■ 2	■ 4	■ 6	■ 8
Zinc	ppm	■ 413	■ 444	■ 438	■ 472
Phosphorus	ppm	■ 329	■ 349	■ 334	■ 362
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 2	■ 0	■ 0	■ 2

### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Appearance is milky. There is a moderate amount of visible silt present in the sample. There is a light concentration of water present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

**Depot:** VOLVO8528  
**Unique No:** 10882943  
**Signed:** Don Baldrige  
**Report Date:** 16 Feb 2024

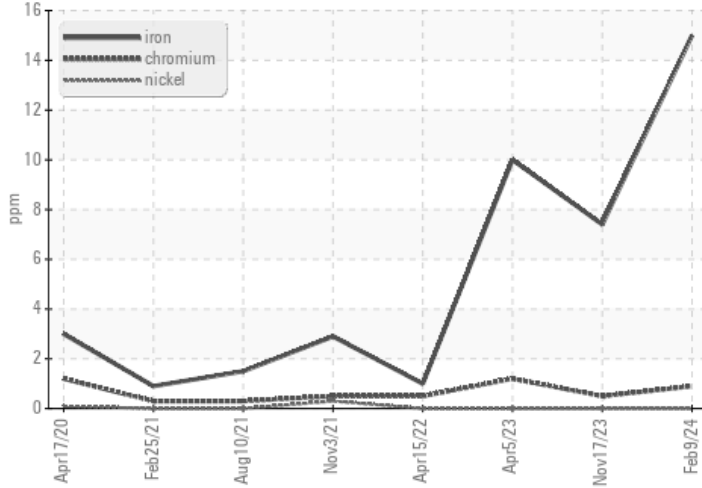


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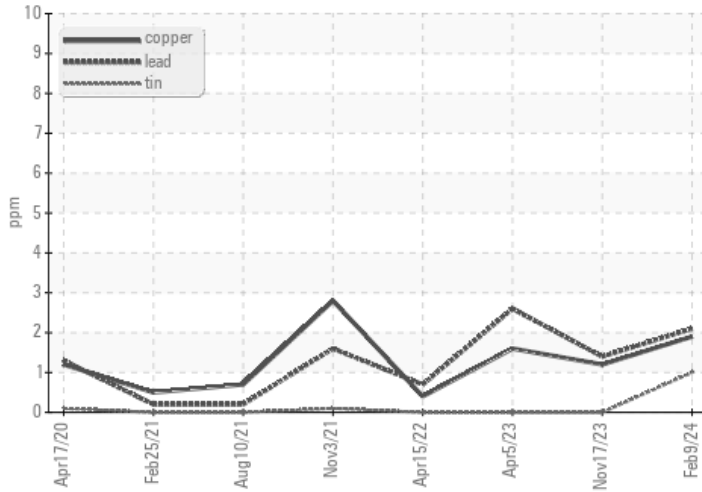


## GRAPHS

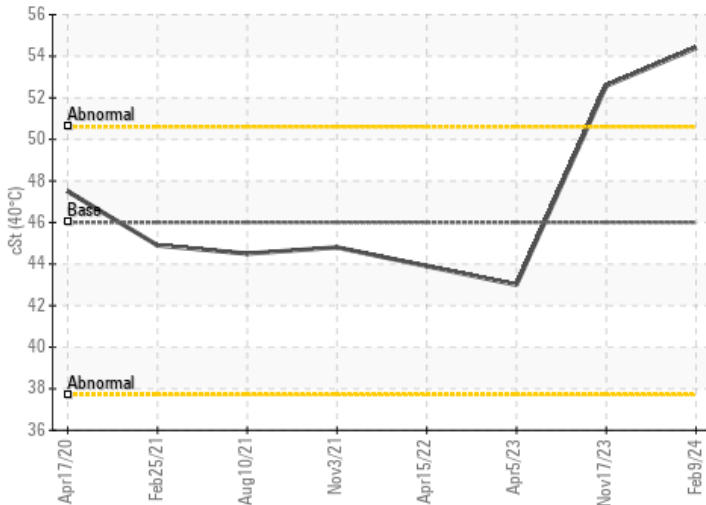
### Ferrous Alloys



### Non-ferrous Metals



### ▲ Viscosity @ 40°C



### Acid Number

