



# CONSTRUCTION EQUIPMENT

## SPM703351 US GYPSUM VOLVO L180H 5572 - HYDRAULIC SYSTEM



**Sample No:** VCP446823  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM703351 US GYPSUM



### SAMPLE INFORMATION

Sample Number	<b>VCP446823</b>	VCP425591	VCP422604	VCP419984
Sample Date	<b>30 Apr 2024</b>	12 Sep 2023	13 Jun 2023	14 Mar 2023
Machine Hours	<b>7008</b>	5421	4720	4201
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>SEVERE</b>	ABNORMAL	ABNORMAL	ATTENTION

**ALTA EQUIPMENT CO - ORLAND PARK**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.1</b>	40.3	40.9	41.1
Acid Number (AN)	mg KOH/g	<b>0.33</b>	0.33	0.22	0.32



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>▲ 47388</b>	▲ 23075	▲ 13589	● 6063
Particles >6µm		<b>▲ 4134</b>	■ 1048	● 1429	■ 775
Particles >14µm		<b>● 177</b>	■ 49	■ 56	■ 46
ISO 4406:1999 (c)		<b>23/19/15</b>	22/17/13	21/18/13	20/17/13
Silicon	ppm	<b>■ &lt;1</b>	■ 1	■ 2	■ 2
Sodium	ppm	<b>■ 2</b>	■ 2	■ 2	■ 2
Potassium	ppm	<b>■ 0</b>	■ <1	■ <1	■ 0

### Diagnosis

Check seals and/or filters for points of contaminant entry. 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. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



### WEAR METALS

Iron	ppm	<b>■ &lt;1</b>	■ 4	■ 4	■ 5
Copper	ppm	<b>■ 0</b>	■ 1	■ 1	■ 1
Lead	ppm	<b>■ 0</b>	■ <1	■ <1	■ 0
Tin	ppm	<b>■ &lt;1</b>	■ 0	■ 0	■ 0
Aluminum	ppm	<b>■ 0</b>	■ <1	■ 0	■ <1
Chromium	ppm	<b>■ 2</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>■ 0</b>	■ 0	■ <1	■ 0
Nickel	ppm	<b>■ 0</b>	■ 0	■ <1	■ 0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>■ 0</b>	■ 0	■ 0	■ <1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>■ 202</b>	■ 323	■ 309	■ 82
Magnesium	ppm	<b>■ 3</b>	■ 4	■ 2	■ 1
Zinc	ppm	<b>■ 465</b>	■ 499	■ 483	■ 411
Phosphorus	ppm	<b>■ 379</b>	■ 414	■ 374	■ 359
Barium	ppm	<b>■ 1</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 1</b>	■ 6	■ 6	■ 0

**Depot:** VOLVO8885  
**Unique No:** 11029975  
**Signed:** Wes Davis  
**Report Date:** 15 May 2024

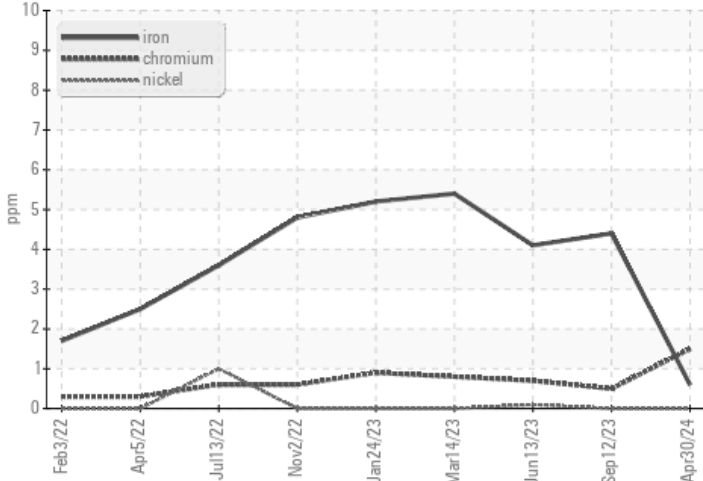


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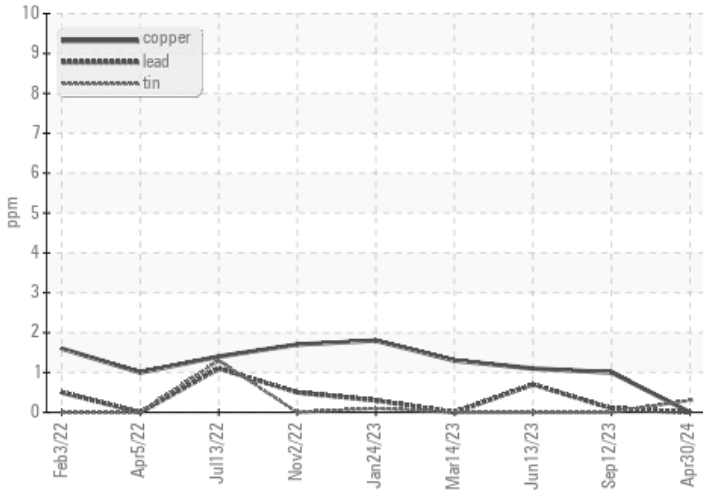


## VOLVO GRAPHS

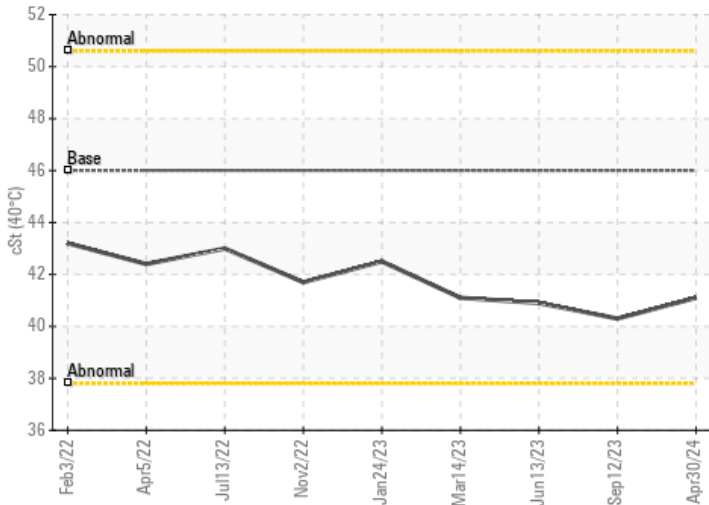
### Ferrous Alloys



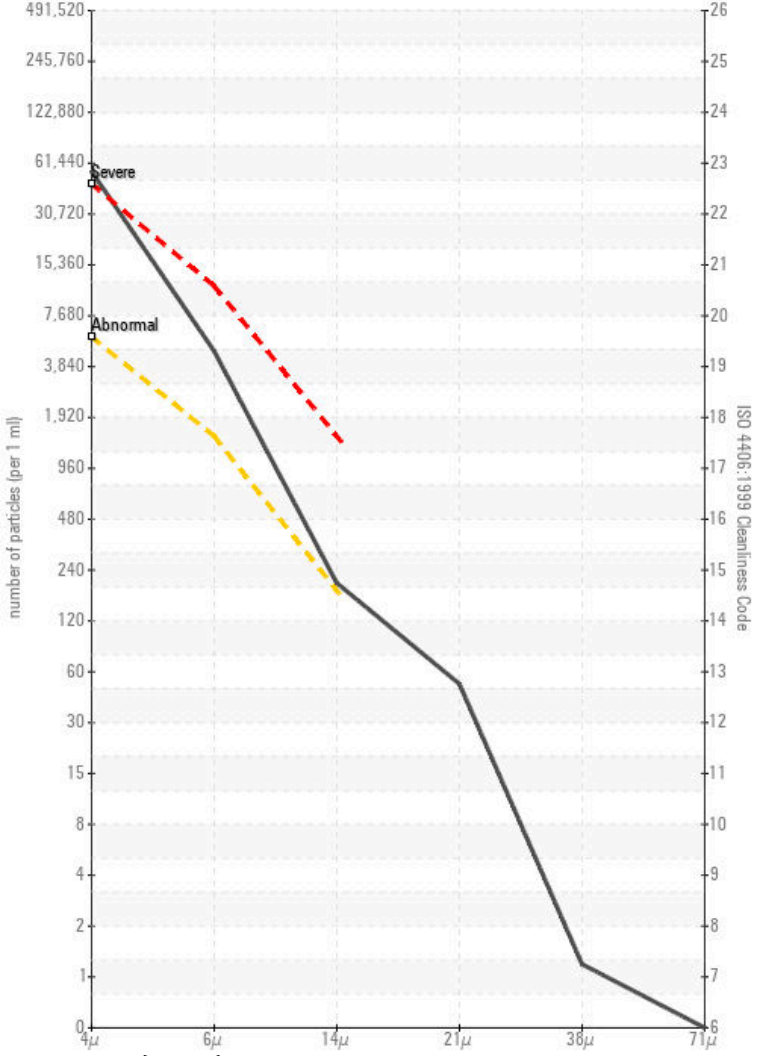
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

