



# CONSTRUCTION EQUIPMENT

## VOLVO L180H 4929 - HYDRAULIC SYSTEM



**Sample No:** VCP431043  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP431043</b>	VCP360553	VCP272318	---
Sample Date	<b>07 Mar 2024</b>	08 Apr 2022	14 Oct 2020	---
Machine Hours	<b>12019</b>	8271	3883	---
Oil Hours	<b>0</b>	0	400	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	---

**ARNOLD MACHINERY COMPANY**  
 464 WASHINGTON STREET S  
 TWIN FALLS, ID  
 US 83301  
 Contact: JANA E HYMAS  
 jhymas@arnoldmachinery.com  
 T: (208)733-1715  
 F: (775)356-7152

### OIL CONDITION

Visc @ 40°C	cSt	<b>43.3</b>	43.1	40.1	---
Acid Number (AN)	mg KOH/g	<b>0.46</b>	0.42	0.394	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>419</b>	86279	713	---
Particles >6µm		<b>86</b>	21121	174	---
Particles >14µm		<b>10</b>	1091	16	---
ISO 4406:1999 (c)		<b>16/14/10</b>	24/22/17	17/15/11	---
Silicon	ppm	<b>8</b>	9	3	---
Sodium	ppm	<b>4</b>	2	0	---
Potassium	ppm	<b>1</b>	2	<1	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	<b>5</b>	7	3	---
Copper	ppm	<b>&lt;1</b>	2	2	---
Lead	ppm	<b>2</b>	<1	1	---
Tin	ppm	<b>3</b>	<1	<1	---
Aluminum	ppm	<b>2</b>	4	0	---
Chromium	ppm	<b>1</b>	1	<1	---
Molybdenum	ppm	<b>4</b>	2	<1	---
Nickel	ppm	<b>&lt;1</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	<1	0	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>309</b>	130	85	---
Magnesium	ppm	<b>20</b>	16	8	---
Zinc	ppm	<b>447</b>	498	429	---
Phosphorus	ppm	<b>353</b>	379	350	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>14</b>	2	2	---

**Depot:** VOLVO1835  
**Unique No:** 10940529  
**Signed:** Wes Davis  
**Report Date:** 25 Mar 2024

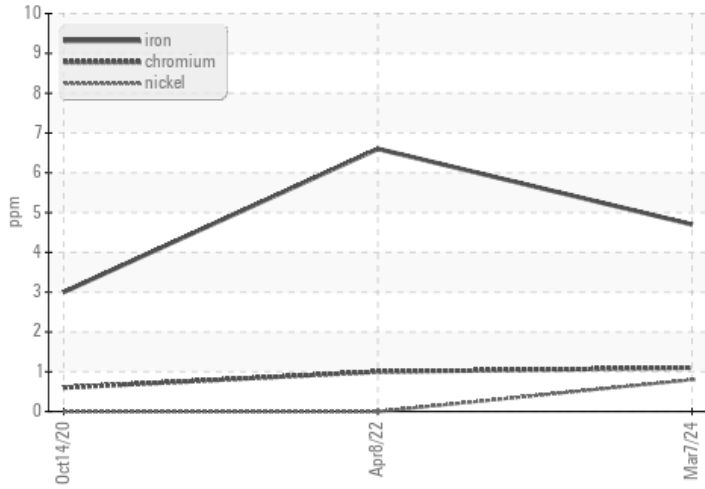


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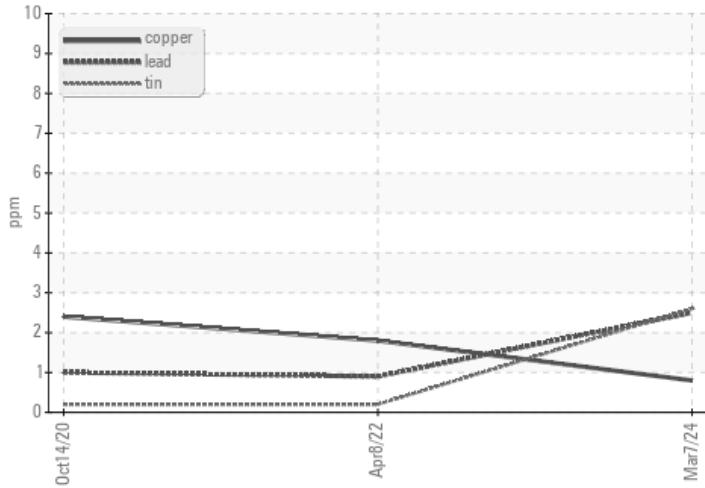


## GRAPHS

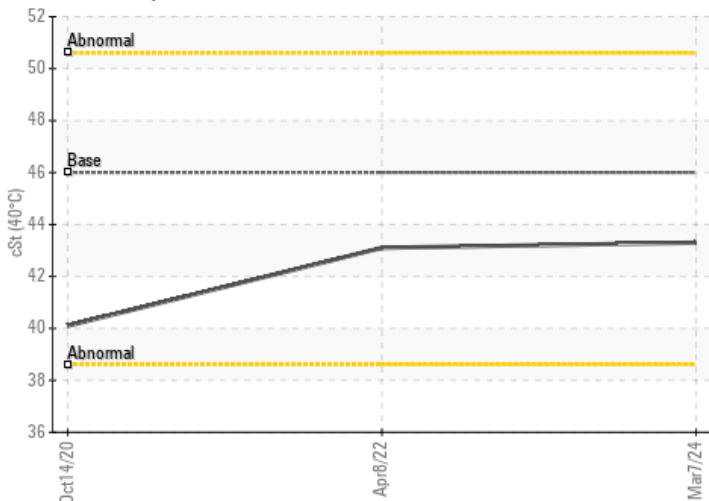
### Ferrous Alloys



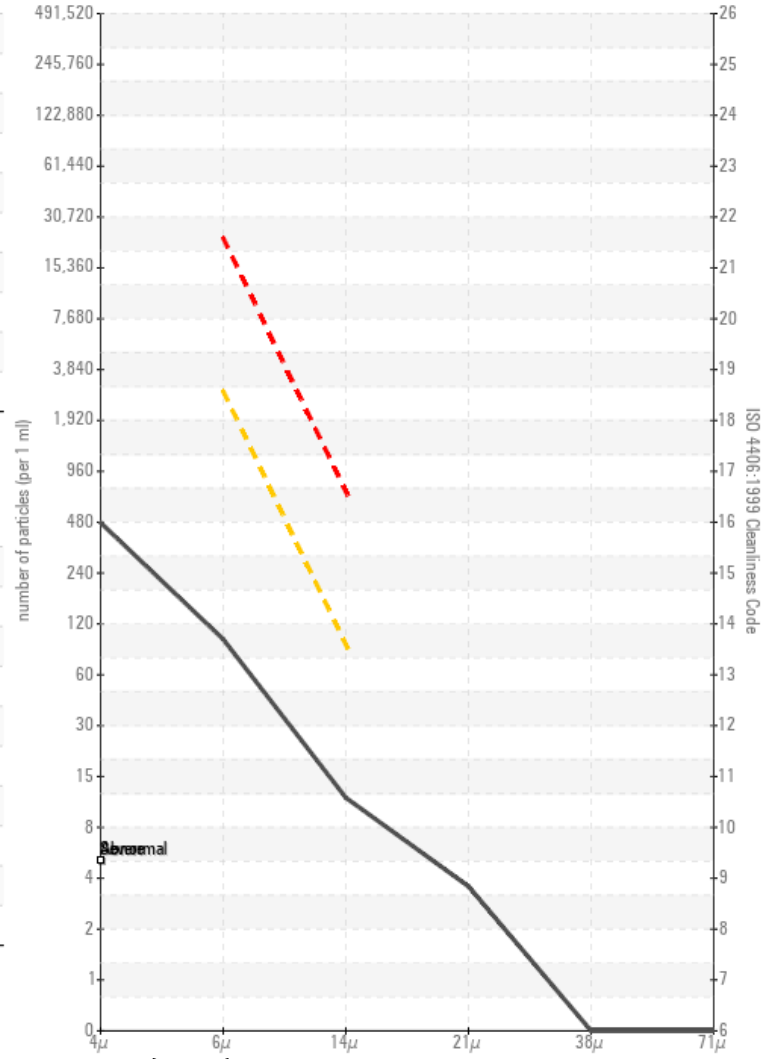
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

