



# CONSTRUCTION EQUIPMENT

## 10998 VOLVO A30D 12131 - HYDRAULIC SYSTEM



**Sample No:** VCP412360  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** 10998



### SAMPLE INFORMATION

Sample Number	<b>VCP412360</b>	VCP339216	VCP255033	VCP257021
Sample Date	<b>27 Aug 2023</b>	28 Jan 2022	29 May 2020	19 Sep 2019
Machine Hours	<b>11023</b>	10505	10160	10000
Oil Hours	<b>0</b>	2000	1500	2000
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>40.6</b>	43.9	44.0	46.9
Acid Number (AN)	mg KOH/g	<b>0.78</b>	0.68	0.749	0.661

### CONTAMINATION

Particles >4µm		<b>7221</b>	11431	15081	16133
Particles >6µm		<b>910</b>	1004	994	1620
Particles >14µm		<b>68</b>	50	73	59
ISO 4406:1999 (c)		<b>20/17/13</b>	21/17/13	21/17/13	21/18/13
Silicon	ppm	<b>9</b>	17	16	17
Sodium	ppm	<b>1</b>	2	2	<1
Potassium	ppm	<b>1</b>	0	1	1

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	<b>6</b>	12	12	11
Copper	ppm	<b>7</b>	14	13	13
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>4</b>	3	3	3
Chromium	ppm	<b>1</b>	3	3	3
Molybdenum	ppm	<b>&lt;1</b>	2	2	2
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	<1	<1	<1
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1034</b>	1142	1162	1034
Magnesium	ppm	<b>29</b>	46	45	44
Zinc	ppm	<b>834</b>	761	775	755
Phosphorus	ppm	<b>647</b>	610	616	588
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>4</b>	13	6	2

**Depot:** JAAPHI  
**Unique No:** 10630292  
**Signed:** Don Baldrige  
**Report Date:** 05 Sep 2023

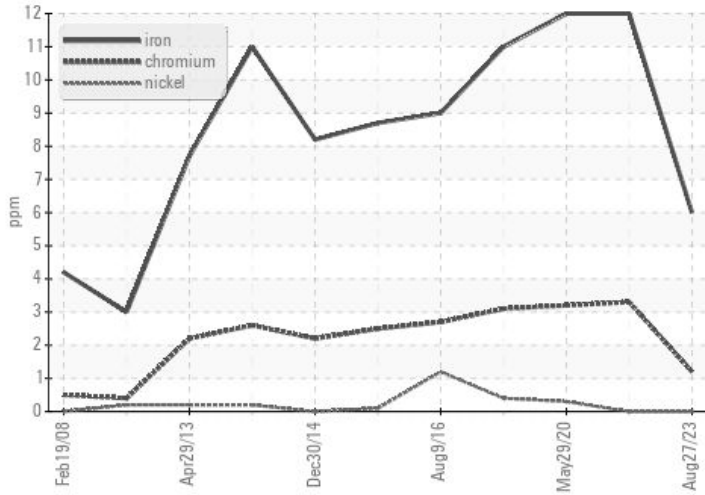


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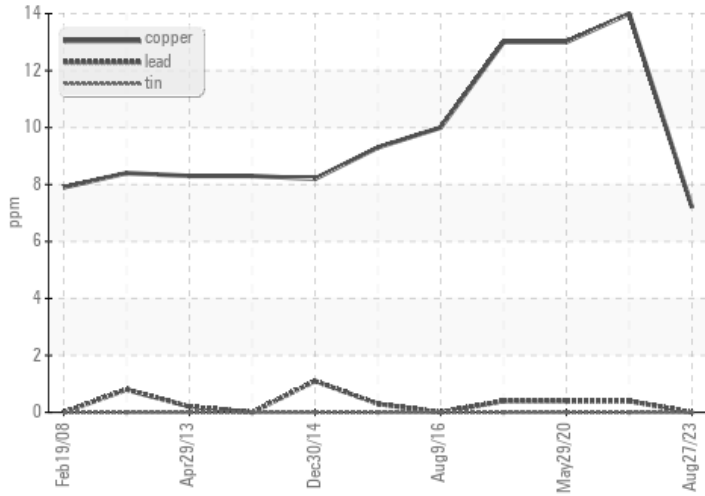


## GRAPHS

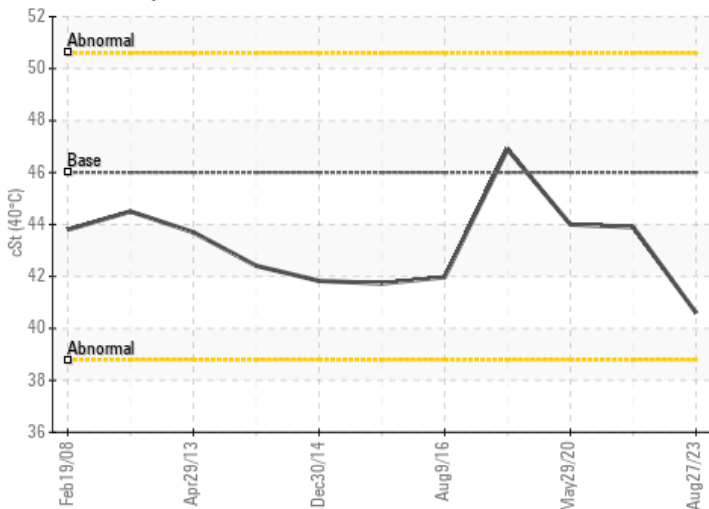
### Ferrous Alloys



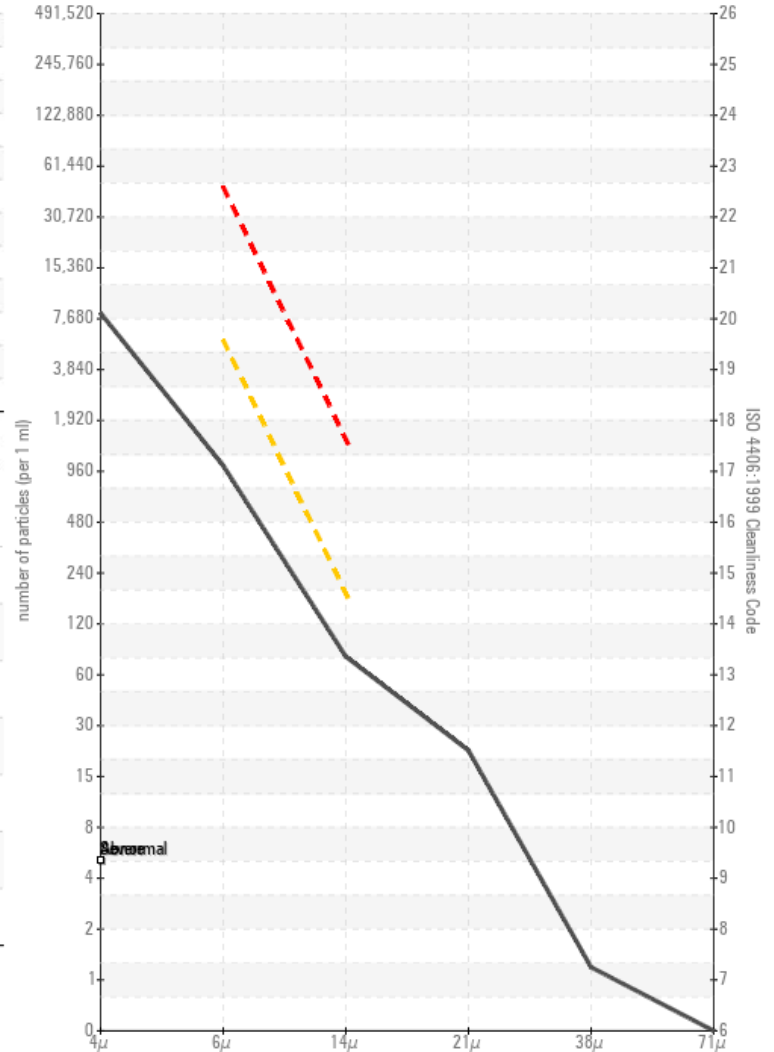
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

