



# CONSTRUCTION EQUIPMENT

## A10901 VOLVO A30D 70020 - HYDRAULIC SYSTEM



**Sample No:** VCP413661  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** A10901



### SAMPLE INFORMATION

Sample Number	<b>VCP413661</b>	VCP240675	VCP214422	VCP199217
Sample Date	<b>16 Aug 2023</b>	27 Aug 2019	31 Jan 2018	11 Aug 2016
Machine Hours	<b>11015</b>	10170	9640	9050
Oil Hours	<b>500</b>	2000	1000	500
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ATTENTION</b>	NORMAL	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.2</b>	42.3	42.4	43.06
Acid Number (AN)	mg KOH/g	<b>0.85</b>	0.283	0.340	0.710

### CONTAMINATION

Particles >4µm		<b>5778</b>	1421	12383	1249
Particles >6µm		<b>2082</b>	317	3549	680
Particles >14µm		<b>240</b>	22	373	115
ISO 4406:1999 (c)		<b>20/18/15</b>	18/15/12	21/19/16	17/17/14
Silicon	ppm	<b>8</b>	10	12	12
Sodium	ppm	<b>2</b>	0	<1	<1
Potassium	ppm	<b>0</b>	<1	1	2

**Diagnosis**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

### WEAR METALS

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

### ADDITIVES

Calcium	ppm	<b>742</b>	114	104	99
Magnesium	ppm	<b>19</b>	15	15	15
Zinc	ppm	<b>775</b>	520	466	468
Phosphorus	ppm	<b>591</b>	399	360	367
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>1</b>	1	<1	<1

**Depot:** JAAPHI  
**Unique No:** 10617992  
**Signed:** Angela Borella  
**Report Date:** 25 Aug 2023

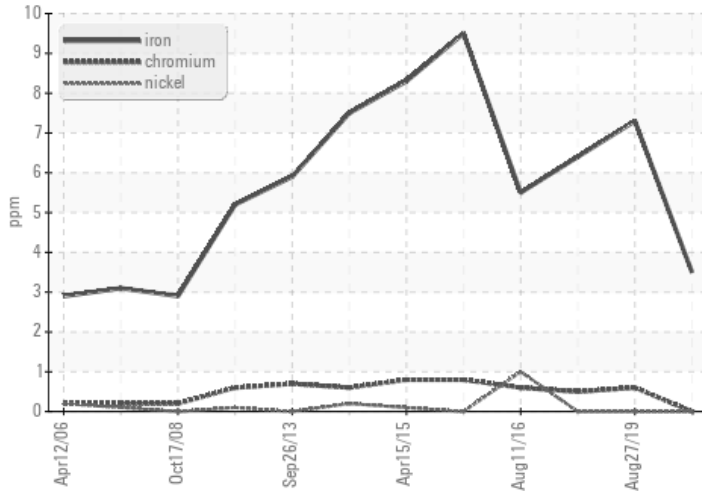


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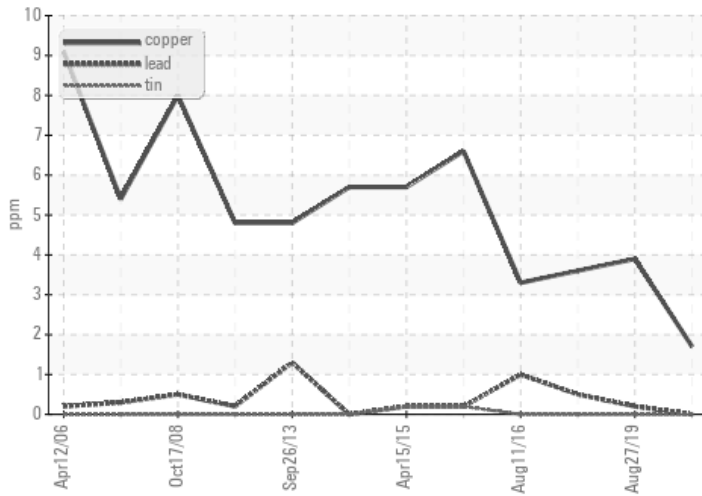


## VOLVO GRAPHS

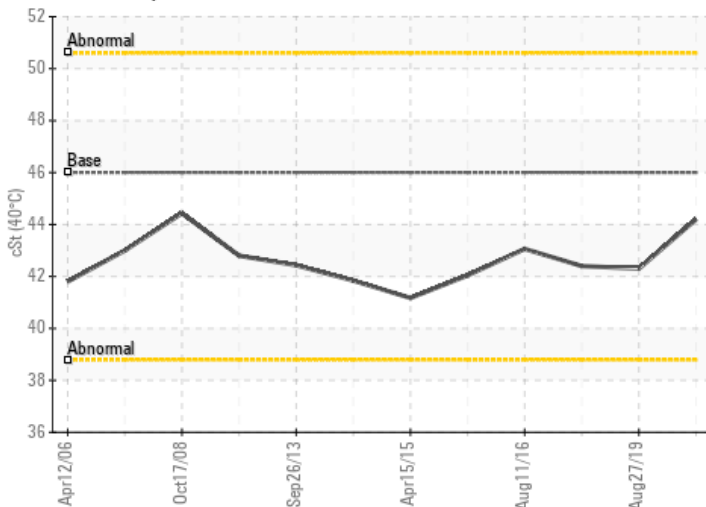
Ferrous Alloys



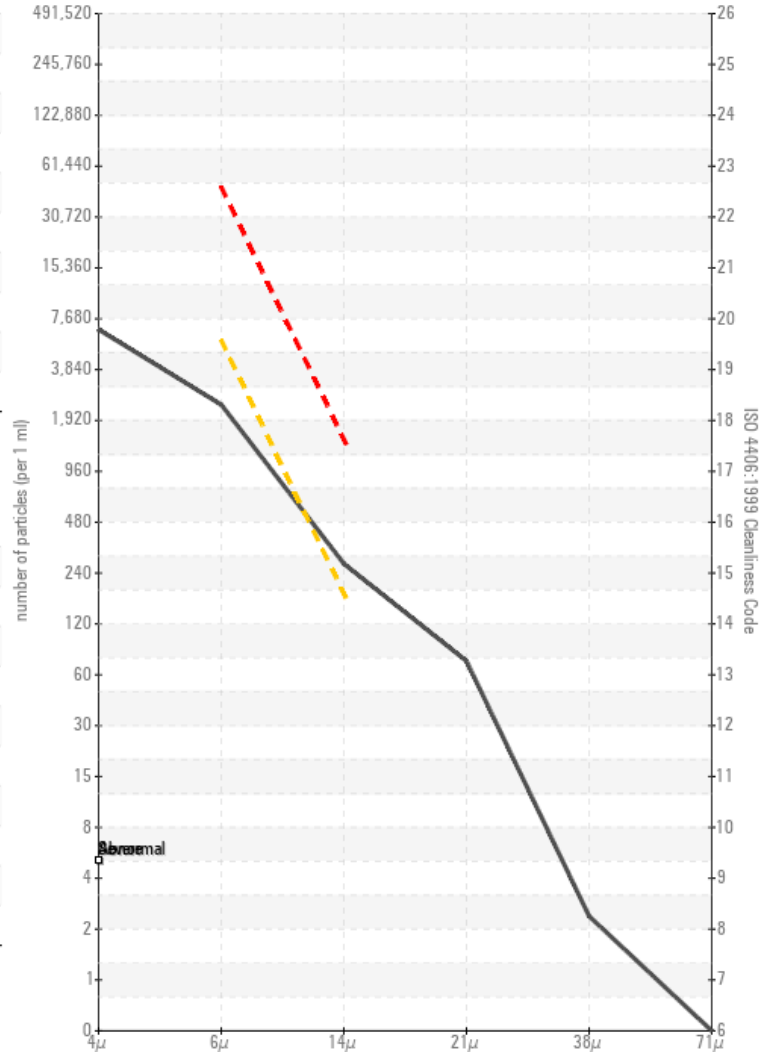
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

