



# CONSTRUCTION EQUIPMENT

## VOLVO A40D 7032Z - HYDRAULIC SYSTEM



**Sample No:** VCP419855

**Oil Type:** MOBIL 10W

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP419855</b>	VCP373502	VCP373807	VCP359598
Sample Date	<b>01 Aug 2023</b>	27 Mar 2023	09 Jan 2023	26 Oct 2022
Machine Hours	<b>26925</b>	26356	25934	25623
Oil Hours	<b>991</b>	422	2168	1857
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>39.6</b>	39.2	39.8	39.4
Acid Number (AN)	mg KOH/g	<b>1.21</b>	1.18	1.15	1.67



### CONTAMINATION

Particles >4µm		<b>32611</b>	10486	15939	56813
Particles >6µm		<b>3757</b>	1146	1404	13116
Particles >14µm		<b>106</b>	26	16	312
ISO 4406:1999 (c)		<b>22/19/14</b>	21/17/12	21/18/11	23/21/15
Silicon	ppm	<b>17</b>	17	17	14
Sodium	ppm	<b>1</b>	0	0	2
Potassium	ppm	<b>0</b>	2	1	0

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are 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>	6	9	10
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>2</b>	1	4	3
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>2</b>	2	3	2
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3152</b>	3169	3326	3013
Magnesium	ppm	<b>24</b>	21	25	22
Zinc	ppm	<b>1051</b>	1082	1156	1173
Phosphorus	ppm	<b>832</b>	880	972	906
Barium	ppm	<b>0</b>	0	1	0
Boron	ppm	<b>1</b>	2	3	5

**Depot:** SCHGRE  
**Unique No:** 10617348  
**Signed:** Doug Bogart  
**Report Date:** 28 Aug 2023

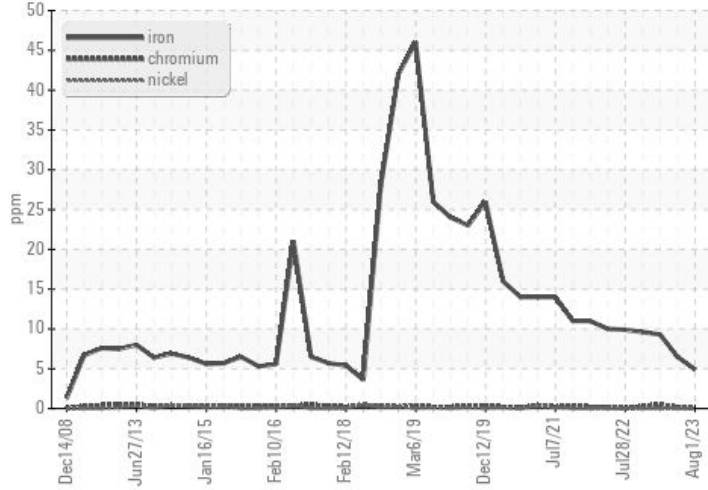


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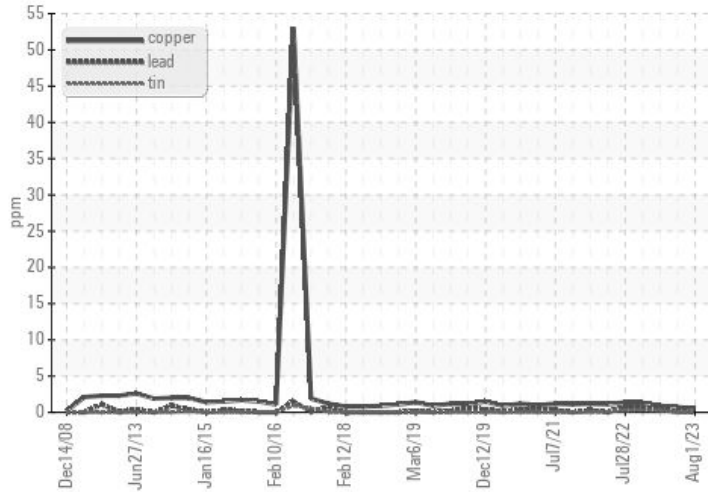


## VOLVO GRAPHS

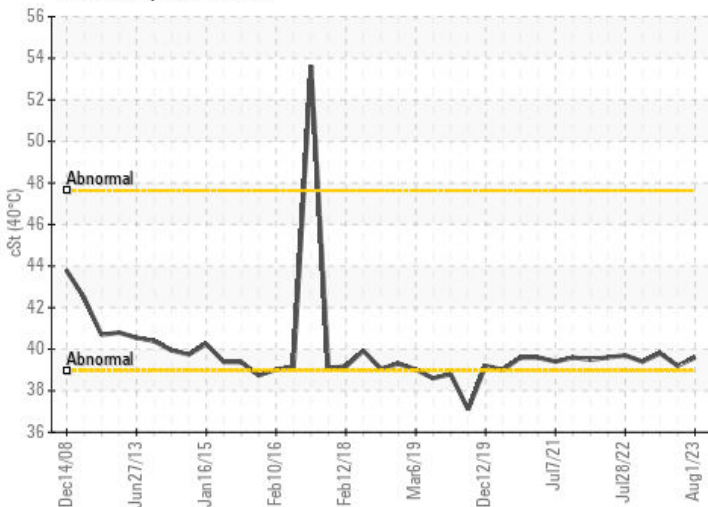
### Ferrous Alloys



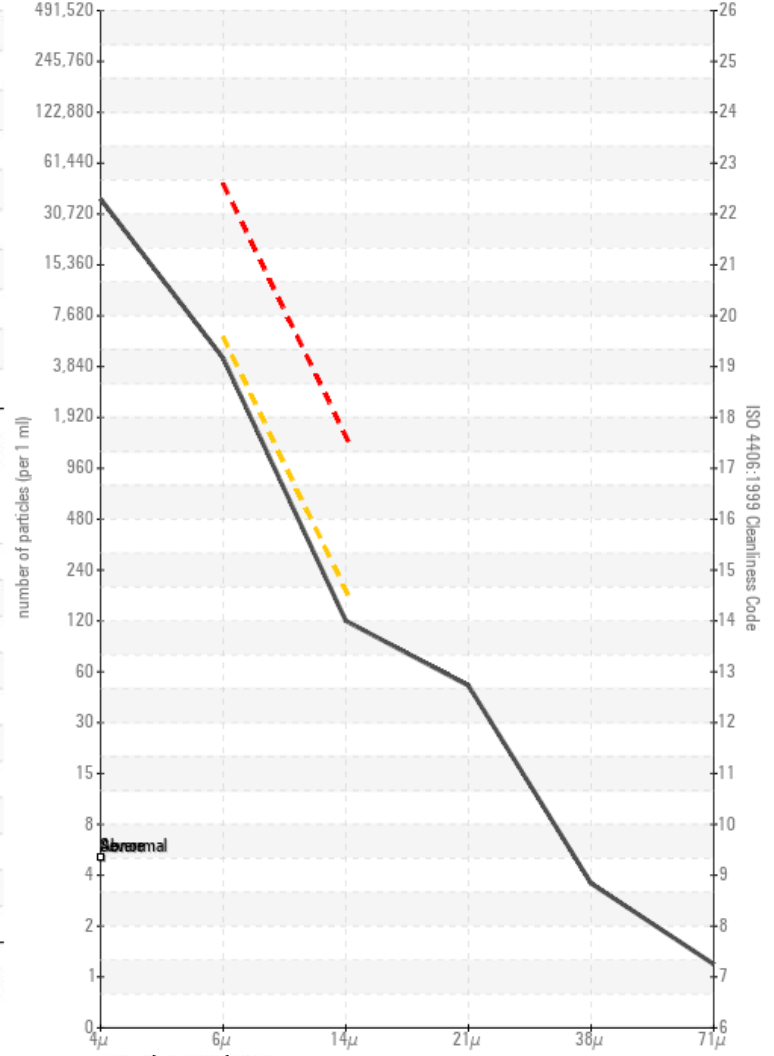
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

