



# CONSTRUCTION EQUIPMENT

## 565152 MOSAIC VOLVO A40G 342363 - HYDRAULIC SYSTEM



**Sample No:** VCP411588  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 565152 MOSAIC



### SAMPLE INFORMATION

Sample Number	<b>VCP411588</b>	VCP378027	VCP340264	VCP269709
Sample Date	<b>05 Jun 2023</b>	22 Jun 2022	26 Oct 2021	27 Feb 2020
Machine Hours	<b>7605</b>	5980	4925	0
Oil Hours	<b>3000</b>	2000	1500	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Changed
Sample Status	<b>ATTENTION</b>	ABNORMAL	ATTENTION	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.8</b>	41.9	40.6	41.3
Acid Number (AN)	mg KOH/g	<b>0.90</b>	0.40	0.396	0.602



### CONTAMINATION

Particles >4µm		<b>32170</b>	17548	12181	10040
Particles >6µm		<b>3414</b>	7566	3420	1899
Particles >14µm		<b>121</b>	1162	269	73
ISO 4406:1999 (c)		<b>22/19/14</b>	21/20/17	21/19/15	21/18/13
Silicon	ppm	<b>16</b>	5	7	7
Sodium	ppm	<b>2</b>	<1	3	2
Potassium	ppm	<b>2</b>	0	<1	<1

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. An increase in the copper level is noted. All other 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. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type. The AN level is acceptable for this fluid.



### WEAR METALS

Iron	ppm	<b>19</b>	8	10	4
Copper	ppm	<b>124</b>	6	9	6
Lead	ppm	<b>0</b>	3	5	2
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	<1	2	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>1</b>	2	<1	0
Nickel	ppm	<b>2</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>3978</b>	108	71	52
Magnesium	ppm	<b>12</b>	10	3	2
Zinc	ppm	<b>1594</b>	448	459	440
Phosphorus	ppm	<b>1319</b>	360	354	310
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>125</b>	1	7	<1

**Depot:** VOLVO0093  
**Unique No:** 10550753  
**Signed:** Don Baldrige  
**Report Date:** 12 Jul 2023

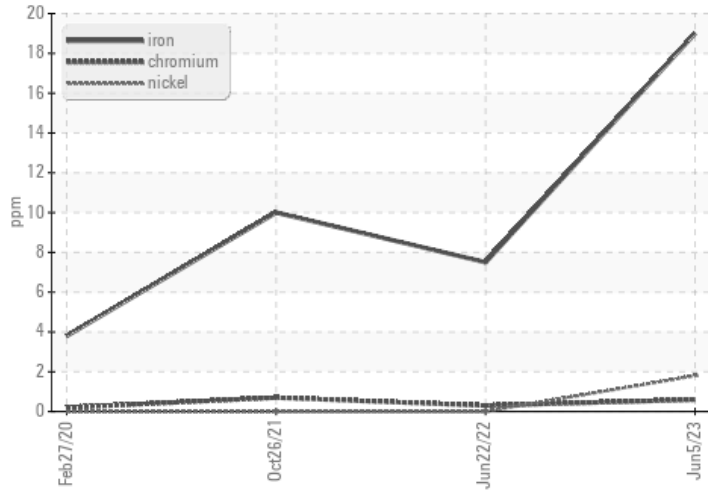


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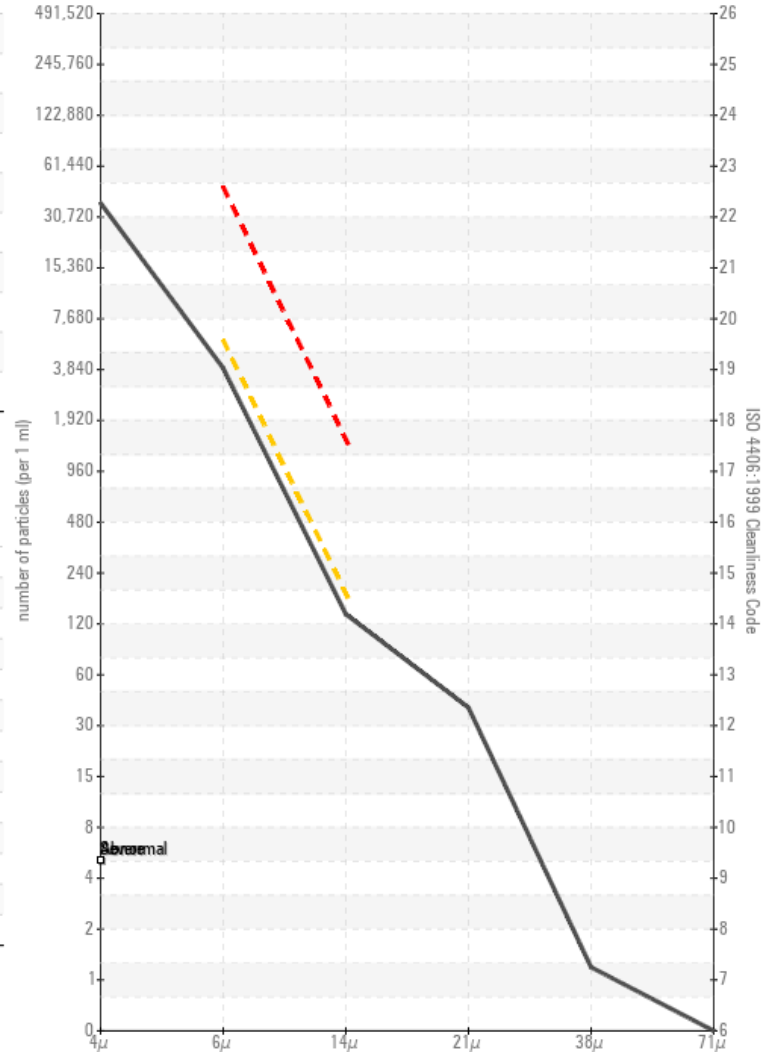


## GRAPHS

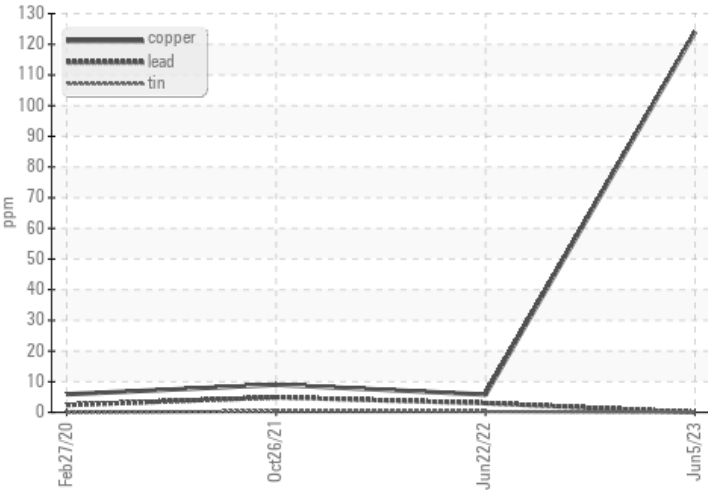
### Ferrous Alloys



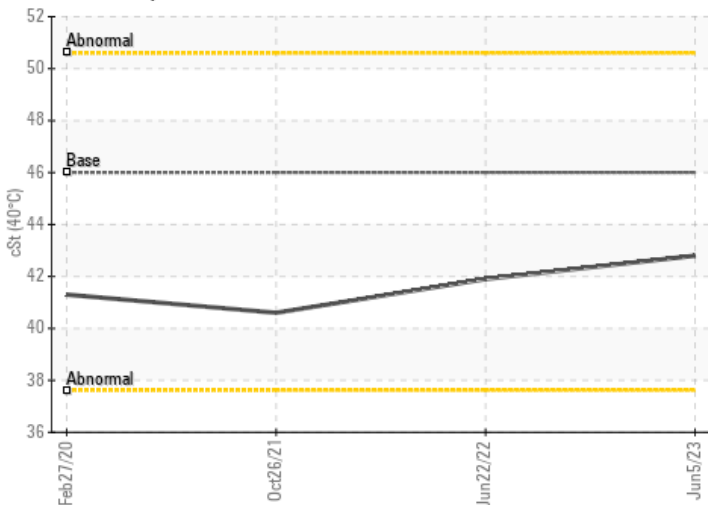
### Particle Count



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

