

### **CONSTRUCTION EQUIPMENT** VOLVO A30G 752233 - COOLANT

(YELLOW)



Sample No: VCP382399

Oil Type:	VOLVO COOLANT VCS
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Job No:

SAMPLE II	NFORMATION				
Sample Number	-	VCP382399	 		
Sample Date		03 Apr 2023	 		
Machine Hours		1100	 		
Sample Status		NORMAL	 		
COOLANT	CONDITION				
рН	Scale 0-14	7.70	 		
Reserve Alkalinity	Scale 0-20		 		
Nitrites	ppm	<b>NT</b>	 		
Percentage Glycol	%	50.5	 		
Freezing Point	°C	<b>-35</b>	 		
Contamii	NATION		 <u>.</u>	• ·	
Coolant Appearance		normal	 		
Coolant Color		Yllow	 		



ALTA EQUIPMENT

5985 COURT STREET ROAD SYRACUSE, NY US 13206 Contact: JOSH GAVIN

T: (585)344-1931 F: (315)437-8558

### Diagnosis

The fluid is suitable for further service. There is no indication of any contamination in the coolant. The carboxylate level of this fluid is acceptable. The glycol level is acceptable. The pH level of this fluid is within the acceptable limits.

 Depot:
 VOLVO0142

 Unique No:
 10417094

 Signed:
 Jonathan Hester

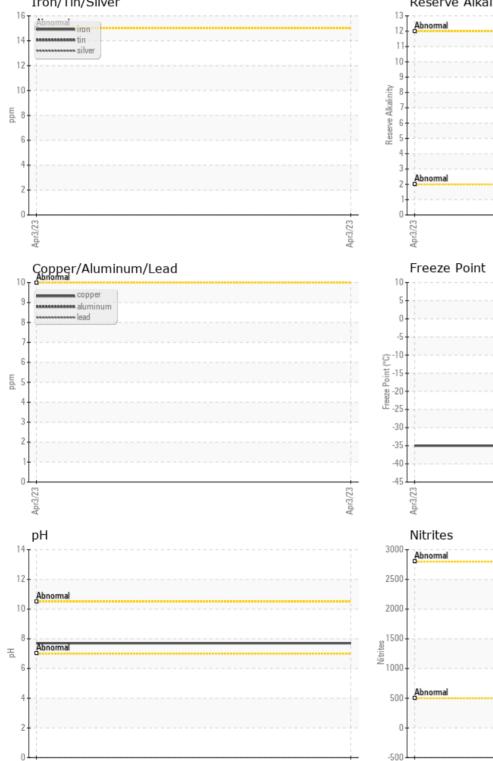
 Report Date:
 12 Apr 2023



# GRAPHS

#### Iron/Tin/Silver

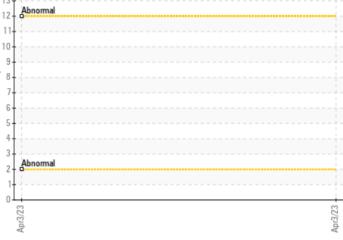
VOLVO

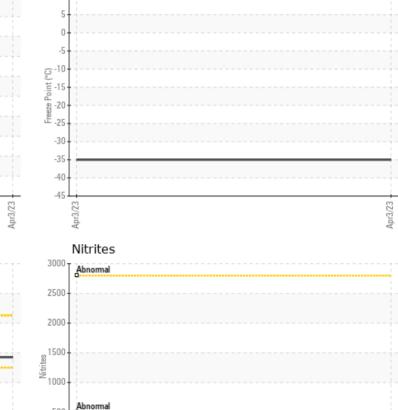


Apr3/23.

Apr3/23

### Reserve Alkalinity





Apr3/23

Apr3/23 .



### **CONSTRUCTION EQUIPMENT** VOLVO A30G 752233 - TRANSMISSION (AUTO)



 Sample No:
 VCP395396

 Oil Type:
 VOLVO AT 102

#### Job No:

Barium

Boron

	E INFORMATION	I		
Sample Number		VCP395396	 	
Sample Date		03 Apr 2023	 	
Machine Hours		1100	 	
Oil Hours		1100	 	
Oil Changed		Not Changd	 	
Sample Status		ABNORMAL	 	
OIL CON	DITION			
Visc @ 40°C	cSt	28.73	 	
	MINATION			
Water	%	NEG	 	
Silicon	ppm	<mark>▲</mark> 34	 	
Sodium	ppm	□<1	 	
Potassium	ppm	0	 	
VOLVO				
🤍 WEAR N	METALS			
Iron	ppm	0	 	
Copper	ppm	0	 	
_ead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	0	 	
Chromium	ppm	0	 	
Molybdenum	ppm	0	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	<b></b> <1	 	
Vanadium	ppm	0	 	
	VES			
Calcium	ppm	<b>70</b>	 	
Magnesium	ppm	3	 	
Zinc	ppm	3	 	
Phosphorus	ppm	<b>158</b>	 	
р ·				



ALTA EQUIPMENT

5985 COURT STREET ROAD SYRACUSE, NY US 13206 Contact: JOSH GAVIN

T: (585)344-1931 F: (315)437-8558

### Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The condition of the fluid is acceptable for the time in service.

 Depot:
 VOLVO0142

 Unique No:
 10417066

 Signed:
 Jonathan Hester

 Report Date:
 12 Apr 2023

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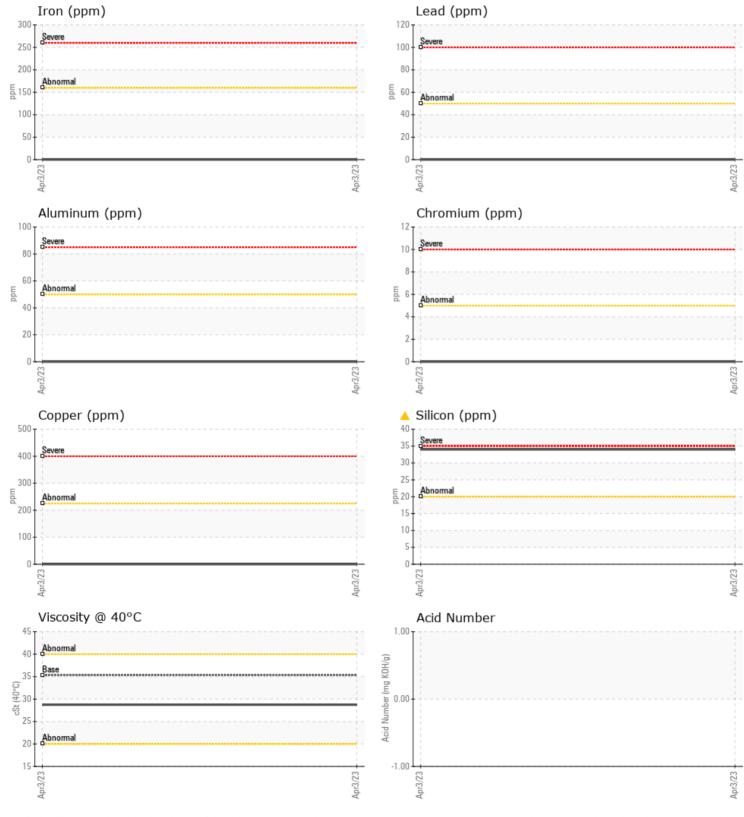
**101** 

ppm



GRAPHS

VOLVO



Report Id: VOLVO0142 [WUSCAR] 05814274 (Generated: 05/01/2024 14:19:22) Rev: 1



### **CONSTRUCTION EQUIPMENT** VOLVO A30G 752233 - WET DISC BRAKE



 Sample No:
 VCP395392

 Oil Type:
 VOLVO WB 102

Job No:

Boron

	E INFORMATION	1		
Sample Number		VCP395392	 	
Sample Date		03 Apr 2023	 	
Machine Hours		1100	 	
Oil Hours		1100	 	
Oil Changed		Not Changd	 	
Sample Status		ABNORMAL	 	
OIL CON	IDITION			
Visc @ 40°C	cSt	42.2	 	
	CST			
VOLVO			 	
CONTAI	MINATION			
Water	%	NEG	 	
Silicon	ppm	21	 	
Sodium	ppm	7	 	
Potassium	ppm		 	
VOLVO				
WEAR I	METALS			
Iron	ppm	<b>1</b> 3	 	
Copper	ppm	<b>238</b>	 	
Lead	ppm	2	 	
Tin	ppm	0	 	
Aluminum	ppm	∎1	 	
Chromium	ppm	0	 	
Molybdenum	ppm	<b></b> <1	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	∎1	 	
Vanadium	ppm	0	 	
VOLVO			 	
ADDITI	VES			
Calcium	ppm	3377	 	
Magnesium	ppm	<b>15</b>	 	
Zinc	ppm	<b>1279</b>	 	
Phosphorus	ppm	<b>1110</b>	 	
Barium	ppm	0	 	
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ALTA EQUIPMENT

5985 COURT STREET ROAD SYRACUSE, NY US 13206 Contact: JOSH GAVIN

T: (585)344-1931 F: (315)437-8558

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor.The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 VOLVO0142

 Unique No:
 10416975

 Signed:
 Don Baldridge

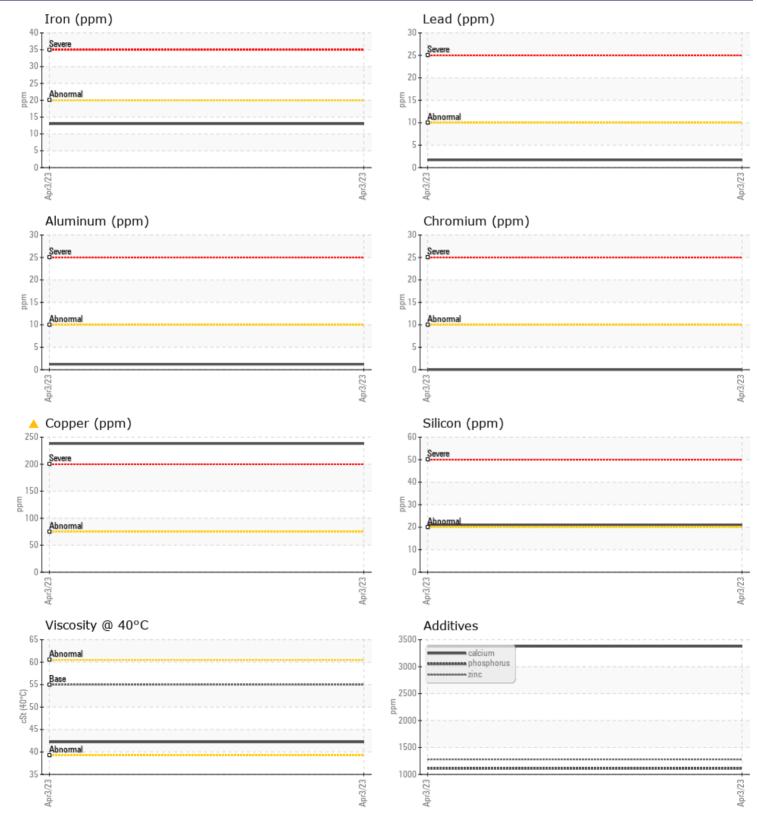
 Report Date:
 12 Apr 2023

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GRAPHS

VOLVO





### **CONSTRUCTION EQUIPMENT** VOLVO A30G 752233 - HYDRAULIC SYSTEM



Sample No: VCP395420

<b>Oil Type:</b> VOLVO SUPER HYDRAULIC OIL 46
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Job No:

	NFORMATION			
Sample Number		VCP395420	 	
Sample Date		03 Apr 2023	 	
Machine Hours		1100	 	
Oil Hours		1100	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OIL CONDI	TION			
Visc @ 40°C	cSt	43.6	 	
Acid Number (AN)	ma KOH/a	0.34	 	
	. , <u>,</u>			
CONTAMI			 	
<u> </u>				
Water	%	NEG	 	
Particles >4µm		5077	 	
Particles >6µm		1357	 	
Particles >14µm		<b>6</b> 9	 	
ISO 4406:1999 (c)		20/18/13	 	
Silicon	ppm	■4	 	
Sodium Potassium	ppm	0	 	
Potassium	ppm	<b>1</b>	 	
VOLVO				
VEAR ME	TALS			
Iron	ppm	4	 	
Copper	ppm	3	 	
Lead	ppm	2	 	
Tin	ppm	0	 	
Aluminum	ppm	0	 	
Aluminum Chromium	ppm ppm	<b>□</b> 0 <b>□</b> <1	 	
Aluminum				
Aluminum Chromium	ppm	■ <1	 	
Aluminum Chromium Molybdenum	ppm ppm	■ <1 ■ <1	 	
Aluminum Chromium Molybdenum Nickel	ppm ppm ppm	□ <1 □ <1 □ 0	  	
Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese	ppm ppm ppm ppm	□ <1 □ <1 □0 0	  	
Aluminum Chromium Molybdenum Nickel Titanium Silver	ppm ppm ppm ppm ppm	□ <1 □ <1 □ 0 0 0	  	  
Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium	ppm ppm ppm ppm ppm	<pre>&lt;1 </pre> < 1  0  0  0  0  0	  	  
Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium	ppm ppm ppm ppm ppm ppm	<pre>&lt;1 </pre> < 1  0  0  0  0  0	  	  
Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium ADDITIVE	ppm ppm ppm ppm ppm ppm	<pre></pre>		
Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium ADDITIVE Calcium	ppm ppm ppm ppm ppm ppm ppm	<pre>     &lt;1     </pre> <pre>       &lt;1       </pre> <pre>       <pre>             </pre>     </pre> <pre>             </pre> <pre>             <pre>                  </pre>             </pre> <pre>                 </pre> <pre>                 </pre> <pre>                 </pre> <pre>                 </pre> <pre>                 </pre> <pre>                 </pre> <pre>     </pre> <		
Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium ADDITIVE Calcium Magnesium	ppm ppm ppm ppm ppm ppm ppm	<pre>     &lt;1     </pre> <pre>       &lt;1       </pre> <pre>       <pre>             </pre>             </pre> <pre>             </pre>		
Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium AdDITIVE Calcium Magnesium Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	<pre>     &lt;1     </pre> <pre>       &lt;1       </pre> <pre>       <pre>             </pre>       </pre> <pre>             </pre> <pre>             <pre>                  </pre>             </pre> <pre>                 </pre> <pre>     </pre>		
Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium Calcium Magnesium Zinc Phosphorus	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	<pre>     &lt;1     </pre> <pre>         <pre>             </pre>             </pre> <pre>                 <pre>                  </pre>             </pre> <td>Image: Second second</td> <td></td>	Image: Second	
Aluminum Chromium Molybdenum Nickel Titanium Silver Manganese Vanadium AdDITIVE Calcium Magnesium Zinc	ppm ppm ppm ppm ppm ppm ppm ppm	<pre>     &lt;1     </pre> <pre>       &lt;1       </pre> <pre>       <pre>             </pre>       </pre> <pre>             </pre> <pre>             <pre>                  </pre>             </pre> <pre>                 </pre> <pre>     </pre>		



ALTA EQUIPMENT

5985 COURT STREET ROAD SYRACUSE, NY US 13206 Contact: JOSH GAVIN

T: (585)344-1931 F: (315)437-8558

### 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.

 Depot:
 VOLVO0142

 Unique No:
 10416659

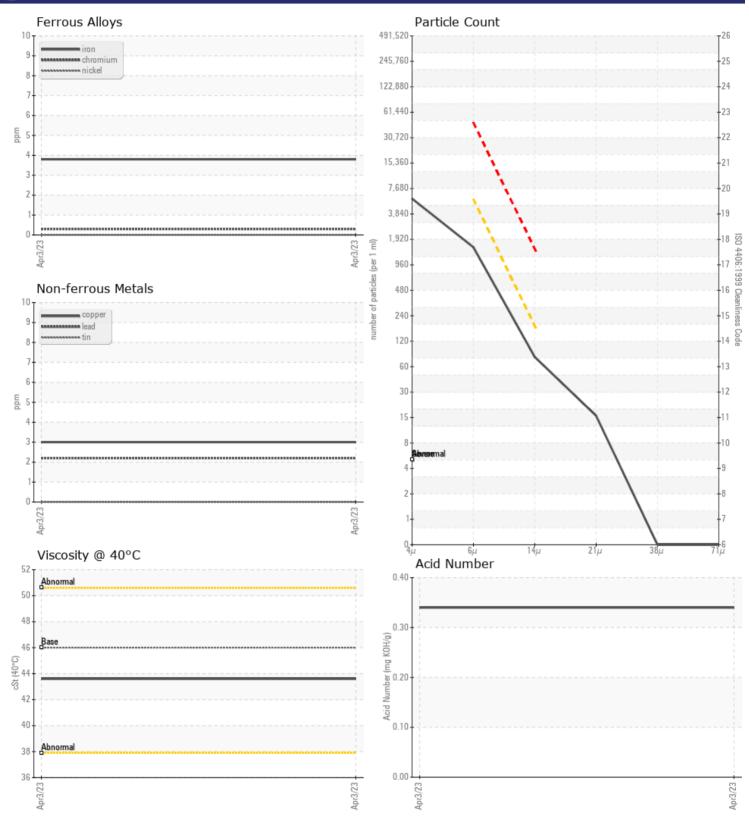
 Signed:
 Wes Davis

 Report Date:
 10 Apr 2023



GRAPHS

VOLVO





### **CONSTRUCTION EQUIPMENT** VOLVO A30G 752233 - FRONT AXLE



# Sample No: VCP395416 Oil Type: VOLVO WB 102

#### Job No:

Boron

	E INFORMATION	N		
Sample Number		VCP395416		 
Sample Date		03 Apr 2023		 
Machine Hours		1100		 
Oil Hours		1100		 
Oil Changed		Not Changd		 
Sample Status		NORMAL		 
OIL CON				
		·	<b>_</b>	
Visc @ 40°C	cSt	<b>43.4</b>		 
VOLVO				
CONTAI	MINATION			
Water	%	NEG		 
Silicon	ppm	∎11		 
Sodium	ppm	□ <1		 
Potassium	ppm	0		 
		_		
VOLVO	AFTALS			
V WEAR I	METALS			
Iron	ppm	2		 
Copper	ppm	0		 
Lead	ppm	0		 
Tin	ppm	0		 
Aluminum	ppm	2		 
Chromium	ppm	0		 
Molybdenum	ppm	<b></b> <1		 
Nickel	ppm	0		 
Titanium	ppm	0		 
Silver	ppm	0		 
Manganese	ppm	■ <1		 
Vanadium	ppm	0		 
VOLVO				 
	VES			
Calcium	ppm	3809		 
Magnesium	ppm	<b>1</b> 9		 
Zinc	ppm	1372		 
Phosphorus	ppm	<b>1126</b>		 
Barium	ppm	0		 
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#### ALTA EQUIPMENT

5985 COURT STREET ROAD SYRACUSE, NY US 13206 Contact: JOSH GAVIN

T: (585)344-1931 F: (315)437-8558

### 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 condition of the oil is acceptable for the time in service.

 Depot:
 VOLVO0142

 Unique No:
 10416976

 Signed:
 Wes Davis

 Report Date:
 11 Apr 2023

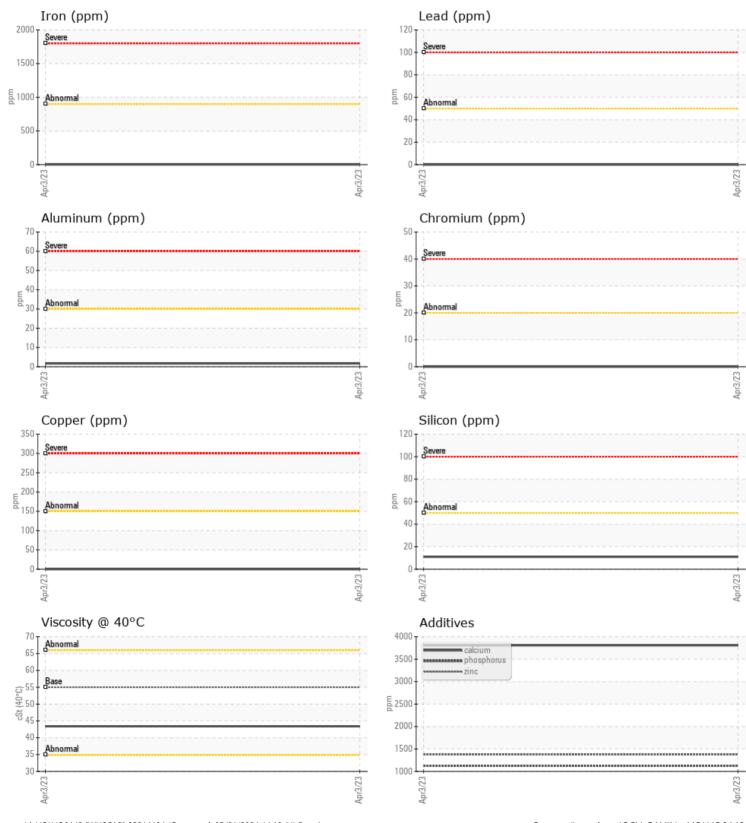
 Contact/Location: JOSH GAVIN - VOLVO0142

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VOLVO



Report Id: VOLVO0142 [WUSCAR] 05814184 (Generated: 05/01/2024 14:19:44) Rev: 1



### **CONSTRUCTION EQUIPMENT** VOLVO A30G 752233 - BOGIE/CENTER AXLE



 Sample No:
 VCP395381

 Oil Type:
 VOLVO WB 102

#### Job No:

Barium

Boron

	INFORMATION			
Sample Number		VCP395381	 	
Sample Date		03 Apr 2023	 	
Machine Hours		1100	 	
Oil Hours		1100	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OIL CON	DITION			
Visc @ 40°C	cSt	43.3	 	
	MINATION			
	-			
Water	%	NEG	 	
Silicon	ppm	□11	 	
Sodium	ppm	□<1	 	
Potassium	ppm	0	 	
VOLVO				
WEAR N	METALS			
Iron	ppm	∎1	 	
Copper	ppm	0	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	2	 	
Chromium	ppm	0	 	
Molybdenum	ppm	0	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	<b></b> <1	 	
Vanadium	ppm	0	 	
VOLVO			 	
ADDITIN	VES			
Calcium	ppm	3830	 	
Magnesium	ppm	<b>19</b>	 	
Zinc	ppm	1387	 	
Phosphorus	ppm	1131	 	
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ALTA EQUIPMENT

5985 COURT STREET ROAD SYRACUSE, NY US 13206 Contact: JOSH GAVIN

T: (585)344-1931 F: (315)437-8558

### 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 condition of the oil is acceptable for the time in service.

 Depot:
 VOLVO0142

 Unique No:
 10416977

 Signed:
 Wes Davis

 Report Date:
 11 Apr 2023

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137

ppm



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VOLVO





### **CONSTRUCTION EQUIPMENT** VOLVO A30G 752233 - REAR AXLE



 Sample No:
 VCP395421

 Oil Type:
 VOLVO WB 102

#### Job No:

Barium

Boron

	E INFORMATION			
Sample Number		VCP395421	 	
Sample Date		03 Apr 2023	 	
Machine Hours		1100	 	
Oil Hours		1100	 	
Oil Changed		Not Changd	 	
Sample Status		NORMAL	 	
OIL CON	DITION			
Visc @ 40°C	cSt	43.0	 	
	MINATION		 	
Water	%	NEG	 	
Silicon	ppm	<b>11</b>	 	
Sodium	ppm	<b>□</b> <1	 	
Potassium	ppm	0	 	
VOLVO				
VEAR N	METALS			
Iron	ppm	2	 	
Copper	ppm	0	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	2	 	
Chromium	ppm	<b>0</b>	 	
Molybdenum	ppm	■ <1	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	■ <1	 	
Vanadium	ppm	0	 	
VOLVO				
ADDITIN	VES			
Calcium	ppm	3821	 	
Magnesium	ppm	<b>19</b>	 	
Zinc	ppm	1382	 	
Phosphorus	ppm	1127	 	



ALTA EQUIPMENT

5985 COURT STREET ROAD SYRACUSE, NY US 13206 Contact: JOSH GAVIN

T: (585)344-1931 F: (315)437-8558

### 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 condition of the oil is acceptable for the time in service.

 Depot:
 VOLVO0142

 Unique No:
 10416973

 Signed:
 Wes Davis

 Report Date:
 11 Apr 2023

 Contact/Location:
 JOST FAVIN - VOLVO0142

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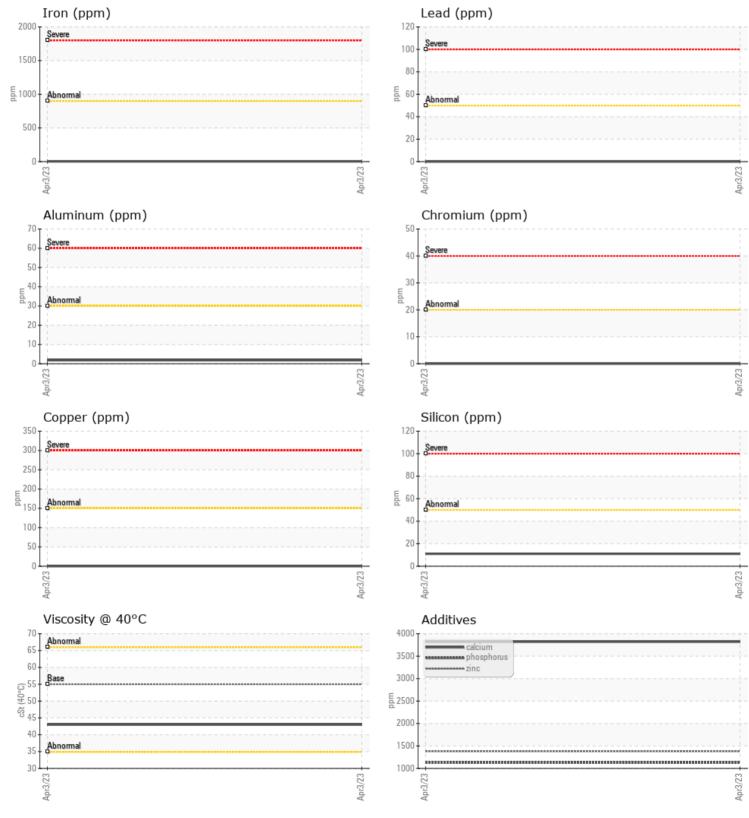
137

ppm



GRAPHS

VOLVO





# CONSTRUCTION EQUIPMENT VOLVO A30G 752233 - DROP BOX



#### Sample No: VCP395387

Oil Type:

VOLVO SUPER GEAR OIL 75W-80-GO102

Job No:

				20.1
	E INFORMATION			
Sample Number		VCP395387	 	 
Sample Date		03 Apr 2023	 	 ALTA EQUIPM
Machine Hours		1100	 	 5985 COURT ST
Oil Hours		1100	 	 SYRACUSE, NY
Oil Changed		Not Changd	 	 US 13206
Sample Status		ATTENTION	 	 Contact: JOSH
Sumple Status				
VOLVO				T: (585)344-193
VIL LUN	DITION			F: (315)437-855
Visc @ 40°C	cSt	52.2	 	
	MINATION			Diagnosis
			 	 Resample at th
Water	%	NEG	 	 to monitor.All
Silicon	ppm	□ <1	 	 are normal. Th
Sodium	ppm	<b>1</b>	 	 any contamina viscosity is low
Potassium	ppm	0	 	 Confirm oil typ
VOLVO				
WEAR	METALS			
Iron	ppm	0	 	
Copper	ppm	0	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	<b>□</b> <1	 	
Chromium	ppm	<b>0</b>	 	
Molybdenum	ppm	0	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese		<b>■</b> <1	 	
Vanadium	ppm	0	 	
variaulum	ppm	U	 	
VOLVO				
ADDITI	VES			
Calcium	ppm	27	 	
Magnesium	ppm	3	 	
Zinc	ppm	0	 	
Phosphorus	ppm	2151	 	
Barium	ppm	0	 	
Boron	ppm	298	 	



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STREET ROAD GAVIN

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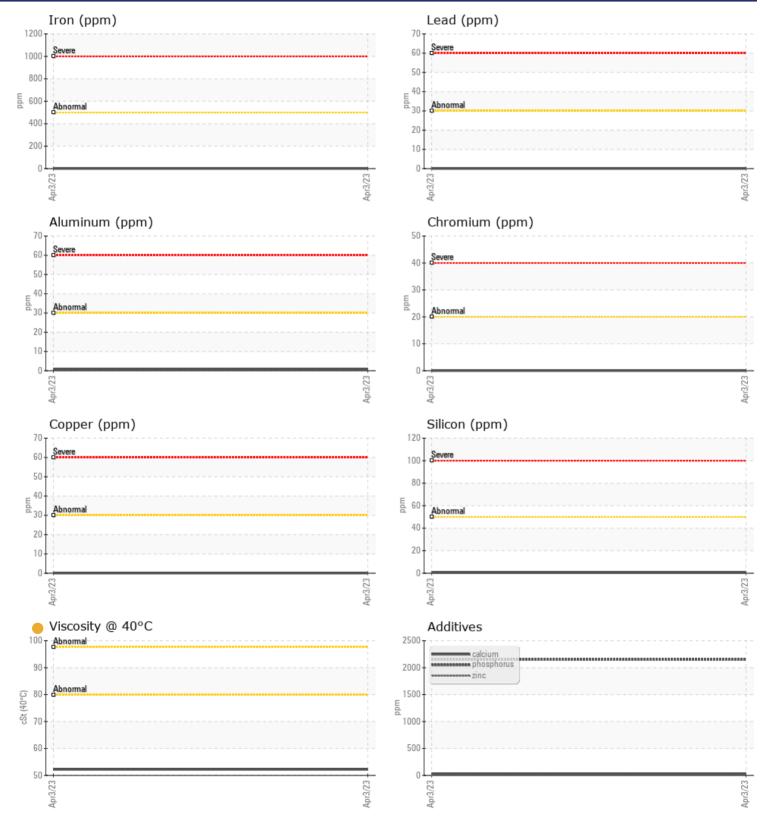
he next service interval component wear rates here is no indication of ation in the oil. The oil wer than normal. pe.

Depot: VOLVO0142 Unique No: 10416974 Signed: Don Baldridge Report Date: 12 Apr 2023 Contact/Location: JOSH GAVIN - VOLVO0142



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VOLVO



Report Id: VOLVO0142 [WUSCAR] 05814182 (Generated: 05/01/2024 14:20:04) Rev: 1

Contact/Location: JOSH GAVIN - VOLVO0142