



# CONSTRUCTION EQUIPMENT

## VOLVO A25G 742 178 - FRONT AXLE



**Sample No:** VCP0008166

**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP0008166</b>	VCP425495	VCP317301	VCP296382
Sample Date	<b>05 Apr 2024</b>	22 Jun 2023	08 Jul 2021	14 Nov 2020
Machine Hours	<b>0</b>	3810	2334	1114
Oil Hours	<b>0</b>	0	0	1114
Oil Changed	<b>N/A</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	NORMAL

**ALTA EQUIPMENT COMPANY**  
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 T: (904)737-6000  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>285</b>	221	60.4	61.4
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>3</b>	2	12	2
Sodium	ppm	<b>1</b>	2	5	4
Potassium	ppm	<b>1</b>	3	<1	15

### 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.



### WEAR METALS

Iron	ppm	<b>73</b>	96	439	312
Copper	ppm	<b>3</b>	5	27	19
Lead	ppm	<b>&lt;1</b>	1	0	5
Tin	ppm	<b>1</b>	<1	1	0
Aluminum	ppm	<b>2</b>	2	3	<1
Chromium	ppm	<b>2</b>	2	10	8
Molybdenum	ppm	<b>3</b>	2	7	4
Nickel	ppm	<b>2</b>	2	7	5
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>2</b>	5	25	22
Vanadium	ppm	<b>&lt;1</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>60</b>	30	44	41
Magnesium	ppm	<b>13</b>	11	<1	0
Zinc	ppm	<b>36</b>	21	8	9
Phosphorus	ppm	<b>1143</b>	795	1413	1444
Barium	ppm	<b>&lt;1</b>	0	0	1
Boron	ppm	<b>191</b>	127	228	185

**Depot:** VOLVO0092  
**Unique No:** 10968250  
**Signed:** Jonathan Hester  
**Report Date:** 12 Apr 2024

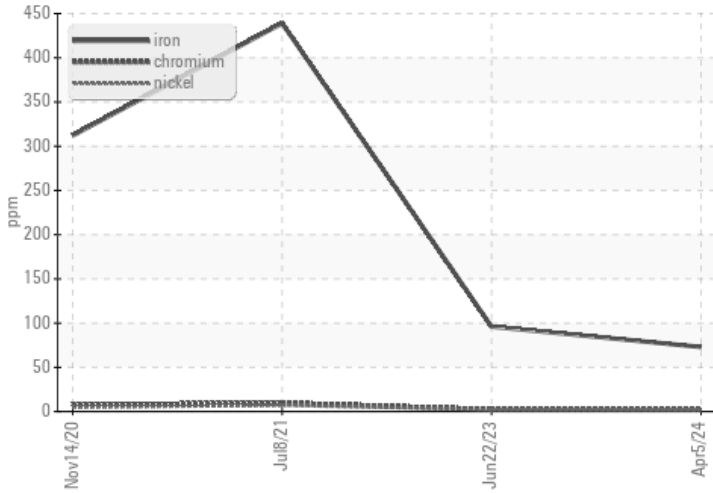


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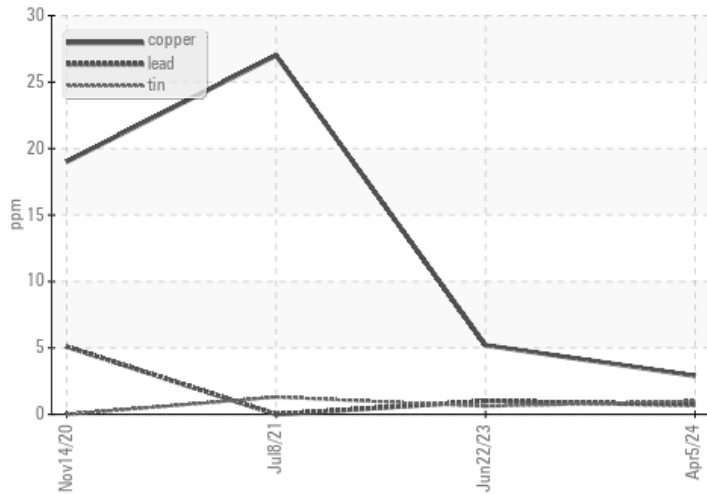


## GRAPHS

### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C

