



# CONSTRUCTION EQUIPMENT

## 469737 WATER FRONT VOLVO A40G 342355 - DROP BOX



**Sample No:** VCP441648  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 469737 WATER FRONT



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### SAMPLE INFORMATION

Sample Number	<b>VCP441648</b>	VCP449234	VCP302588	VCP282072
Sample Date	<b>30 Jan 2024</b>	02 Jan 2024	21 Jan 2021	03 Sep 2020
Machine Hours	<b>7915</b>	7884	5098	4547
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL



### OIL CONDITION

Visc @ 40°C	cSt	<b>254</b>	252	120	103
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<b>23</b>	18	6	29
Sodium	ppm	<b>2</b>	4	6	16
Potassium	ppm	<b>3</b>	<1	2	0



### WEAR METALS

Iron	ppm	<b>559</b>	424	26	74
Copper	ppm	<b>2</b>	2	<1	1
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>29</b>	23	6	24
Chromium	ppm	<b>6</b>	4	<1	2
Molybdenum	ppm	<b>19</b>	15	4	17
Nickel	ppm	<b>1</b>	<1	1	<1
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>6</b>	5	<1	2
Vanadium	ppm	<b>0</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>135</b>	103	134	117
Magnesium	ppm	<b>39</b>	29	2	<1
Zinc	ppm	<b>108</b>	84	71	91
Phosphorus	ppm	<b>1279</b>	973	882	978
Barium	ppm	<b>7</b>	0	0	<1
Boron	ppm	<b>169</b>	130	116	84

### Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. 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:** VOLVO0093  
**Unique No:** 10859953  
**Signed:** Don Baldrige  
**Report Date:** 04 Feb 2024



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## GRAPHS

