



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352505 - DROP BOX



**Sample No:** VCP399593  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP399593</b>	VCP365371	VCP409132	VCP373583
Sample Date	<b>21 Nov 2023</b>	18 Sep 2023	05 Jul 2023	22 Mar 2023
Machine Hours	<b>3910</b>	3611	3142	2624
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ATTENTION</b>	ATTENTION	ABNORMAL	NORMAL

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 BELLEVUE, IA  
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 T:  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 106</b>	▲ 106	▲ 105	■ 52.1
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### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ <b>27</b>	■ 19	■ 18	■ 45
Sodium	ppm	■ <b>2</b>	■ 1	■ 1	■ 6
Potassium	ppm	■ <b>2</b>	■ 2	■ 2	■ <1

### 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 oil viscosity is lower than normal. Confirm oil type.



### WEAR METALS

Iron	ppm	■ <b>196</b>	■ 152	■ 120	■ 250
Copper	ppm	■ <b>3</b>	■ 4	■ 3	■ 9
Lead	ppm	■ <b>0</b>	■ <1	■ 0	■ 0
Tin	ppm	■ <b>0</b>	■ 0	■ 0	■ 0
Aluminum	ppm	■ <b>3</b>	■ 2	■ 2	■ <1
Chromium	ppm	■ <b>3</b>	■ 2	■ 1	■ 2
Molybdenum	ppm	■ <b>9</b>	■ 9	■ 7	■ 12
Nickel	ppm	■ <b>&lt;1</b>	■ <1	■ <1	■ 2
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	■ <b>3</b>	■ 2	■ 2	■ 5
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	■ <b>24</b>	■ 91	■ 24	■ 39
Magnesium	ppm	■ <b>4</b>	■ 3	■ 3	■ 7
Zinc	ppm	■ <b>26</b>	■ 56	■ 35	■ 128
Phosphorus	ppm	■ <b>1198</b>	■ 1291	■ 1349	■ 2081
Barium	ppm	■ <b>0</b>	■ <1	■ <1	■ 0
Boron	ppm	■ <b>90</b>	■ 77	■ 90	■ 122

**Depot:** DUNBEL  
**Unique No:** 10765660  
**Signed:** Don Baldrige  
**Report Date:** 03 Dec 2023



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## GRAPHS

