



# CONSTRUCTION EQUIPMENT

SWO-069182 VOLVO A45G 352639 - DROP BOX



**Sample No:** VCP431085  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** SWO-069182



## SAMPLE INFORMATION

Sample Number	<b>VCP431085</b>	VCP427472	VCP416743	VCP410478
Sample Date	<b>24 Jan 2024</b>	23 Oct 2023	07 Aug 2023	12 May 2023
Machine Hours	<b>5434</b>	4956	4377	3923
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	ATTENTION

**SAIIA CONSTRUCTION LLC**  
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 BIRMINGHAM, AL  
 US 35207  
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## OIL CONDITION

Visc @ 40°C	cSt	<b>100</b>	99.2	█ 202	▲ 47.4
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## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	█ <b>11</b>	█ 12	█ 13	█ 42
Sodium	ppm	█ <b>2</b>	█ 0	█ 1	█ 7
Potassium	ppm	█ <b>2</b>	█ 3	█ 1	█ 4

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



## WEAR METALS

Iron	ppm	█ <b>33</b>	█ 23	█ 32	█ 155
Copper	ppm	█ <b>2</b>	█ 4	█ 3	█ 12
Lead	ppm	█ <b>0</b>	█ 0	█ 0	█ <1
Tin	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ 0
Aluminum	ppm	█ <b>&lt;1</b>	█ 1	█ <1	█ 0
Chromium	ppm	█ <b>&lt;1</b>	█ <1	█ <1	█ 2
Molybdenum	ppm	█ <b>4</b>	█ 4	█ 4	█ 10
Nickel	ppm	█ <b>0</b>	█ <1	█ <1	█ 1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	█ <b>1</b>	█ <1	█ <1	█ 5
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	█ <b>1768</b>	█ 1847	█ 65	█ 44
Magnesium	ppm	█ <b>18</b>	█ 15	█ 17	█ 6
Zinc	ppm	█ <b>731</b>	█ 768	█ 60	█ 160
Phosphorus	ppm	█ <b>1285</b>	█ 1377	█ 1222	█ 2081
Barium	ppm	█ <b>0</b>	█ 0	█ 2	█ 0
Boron	ppm	█ <b>204</b>	█ 190	█ 173	█ 128

**Depot:** SAIBIR  
**Unique No:** 10849944  
**Signed:** Don Baldrige  
**Report Date:** 31 Jan 2024



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## GRAPHS

