



# CONSTRUCTION EQUIPMENT

SWO-070857 VOLVO A45G 352704 - DROP BOX



**Sample No:** VCP445586  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SWO-070857



## SAMPLE INFORMATION

Sample Number	<b>VCP445586</b>	VCP431881	VCP389227	VCP383500
Sample Date	<b>03 Apr 2024</b>	06 Nov 2023	17 Jul 2023	27 Apr 2023
Machine Hours	<b>5412</b>	4902	4405	3920
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	ABNORMAL	NORMAL

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## OIL CONDITION

Visc @ 40°C	cSt	<span style="color: green;">■</span> 142	<span style="color: green;">■</span> 214	<span style="color: orange;">●</span> 213	<span style="color: green;">■</span> 47.3
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## CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<span style="color: green;">■</span> 5	<span style="color: green;">■</span> 8	<span style="color: green;">■</span> 12	<span style="color: green;">■</span> 32
Sodium	ppm	<span style="color: green;">■</span> 1	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 4
Potassium	ppm	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 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. The condition of the oil is acceptable for the time in service.

## WEAR METALS

Iron	ppm	<span style="color: green;">■</span> 52	<span style="color: green;">■</span> 129	<span style="color: green;">■</span> 92	<span style="color: green;">■</span> 251
Copper	ppm	<span style="color: green;">■</span> 3	<span style="color: green;">■</span> 4	<span style="color: green;">■</span> 4	<span style="color: green;">■</span> 16
Lead	ppm	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> <1
Tin	ppm	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0
Aluminum	ppm	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> 0
Chromium	ppm	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 1	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> 2
Molybdenum	ppm	<span style="color: green;">■</span> 8	<span style="color: green;">■</span> 7	<span style="color: green;">■</span> 9	11
Nickel	ppm	<span style="color: green;">■</span> 1	<span style="color: green;">■</span> 1	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> <1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 2	<span style="color: green;">■</span> 2	7
Vanadium	ppm	<1	0	<1	0

## ADDITIVES

Calcium	ppm	<span style="color: green;">■</span> 70	<span style="color: green;">■</span> 70	<span style="color: green;">■</span> 112	61
Magnesium	ppm	<span style="color: green;">■</span> 21	<span style="color: green;">■</span> 19	<span style="color: green;">■</span> 18	5
Zinc	ppm	<span style="color: green;">■</span> 87	<span style="color: green;">■</span> 59	<span style="color: green;">■</span> 84	157
Phosphorus	ppm	<span style="color: green;">■</span> 1103	<span style="color: green;">■</span> 1218	<span style="color: green;">■</span> 1221	2121
Barium	ppm	<span style="color: green;">■</span> <1	<span style="color: green;">■</span> 0	<span style="color: green;">■</span> 0	0
Boron	ppm	<span style="color: green;">■</span> 75	<span style="color: green;">■</span> 152	<span style="color: green;">■</span> 188	158

**Depot:** SAIBIR  
**Unique No:** 10968204  
**Signed:** Jonathan Hester  
**Report Date:** 12 Apr 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

