



# CONSTRUCTION EQUIPMENT

## 10998 VOLVO A30D 12131 - REAR AXLE



**Sample No:** VCP412365  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** 10998



### SAMPLE INFORMATION

Sample Number	<b>VCP412365</b>	VCP339276	VCP263829	VCP243460
Sample Date	<b>27 Aug 2023</b>	28 Jan 2022	29 May 2020	19 Sep 2019
Machine Hours	<b>11023</b>	10505	10160	10000
Oil Hours	<b>0</b>	2000	1500	1000
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>329</b>	335	329	333
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### CONTAMINATION

Silicon	ppm	<b>23</b>	6	14	13
Sodium	ppm	<b>2</b>	2	4	4
Potassium	ppm	<b>1</b>	0	2	9



### WEAR METALS

Iron	ppm	<b>119</b>	25	79	64
Copper	ppm	<b>12</b>	3	9	8
Lead	ppm	<b>0</b>	<1	<1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	<1	2	2
Chromium	ppm	<b>1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	0	<1
Nickel	ppm	<b>1</b>	<1	<1	2
Titanium	ppm	<b>&lt;1</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	<1	1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>33</b>	24	27	33
Magnesium	ppm	<b>7</b>	4	5	6
Zinc	ppm	<b>29</b>	2	20	23
Phosphorus	ppm	<b>979</b>	336	833	800
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>190</b>	69	147	142

### 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.

**Depot:** JAAPHI  
**Unique No:** 10630552  
**Signed:** Don Baldrige  
**Report Date:** 05 Sep 2023



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## GRAPHS

