



# CONSTRUCTION EQUIPMENT

W113053244 VOLVO A40G 341147 - BOGIE/CENTER AXLE



**Sample No:** VCP412012  
**Oil Type:** VOLVO SUPER GEAR OIL 75W-80-GO102  
**Job No:** W113053244



## SAMPLE INFORMATION

Sample Number	<b>VCP412012</b>	VCP420395	VCP418916	VCP389522
Sample Date	<b>21 Jul 2023</b>	01 Jun 2023	03 May 2023	27 Oct 2022
Machine Hours	<b>13573</b>	13304	13209	12056
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Changed
Sample Status	<b>SEVERE</b>	SEVERE	SEVERE	SEVERE

**Hanson Aggregates - Rocky Mount**  
10471 NC 97  
ROCKY MOUNT, NC  
US 27801  
Contact: Service Manager



## OIL CONDITION

Visc @ 40°C	cSt	<b>54.0</b>	54.1	54.3	54.3
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T:  
F:



## CONTAMINATION

Silicon	ppm	<b>165</b>	259	247	232
Sodium	ppm	<b>6</b>	9	9	6
Potassium	ppm	<b>6</b>	9	8	6

## Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The iron level has decreased, but is still abnormal. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.



## WEAR METALS

Iron	ppm	<b>1112</b>	1654	1359	1127
Copper	ppm	<b>14</b>	15	14	12
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>28</b>	40	39	36
Chromium	ppm	<b>11</b>	18	15	12
Molybdenum	ppm	<b>3</b>	4	4	1
Nickel	ppm	<b>7</b>	11	9	8
Titanium	ppm	<b>2</b>	3	3	3
Silver	ppm	<b>0</b>	0	0	1
Manganese	ppm	<b>14</b>	18	16	11
Vanadium	ppm	<b>0</b>	0	<1	0



## ADDITIVES

Calcium	ppm	<b>42</b>	51	44	4
Magnesium	ppm	<b>2</b>	1	3	5
Zinc	ppm	<b>23</b>	36	30	12
Phosphorus	ppm	<b>2518</b>	2458	2440	2266
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>203</b>	219	231	270

**Depot:** HANROC  
**Unique No:** 10573601  
**Signed:** Don Baldrige  
**Report Date:** 27 Jul 2023



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## VOLVO GRAPHS

