



# CONSTRUCTION EQUIPMENT

SWA276465 RANGO VOLVO A45G 352403 - DROP BOX



**Sample No:** VCP407618  
**Oil Type:** GEAR OIL SAE 75W80  
**Job No:** SWA276465 RANGO



## SAMPLE INFORMATION

Sample Number	<b>VCP407618</b>	VCP387391	VCP385851	VCP371607
Sample Date	<b>02 Jun 2023</b>	07 Feb 2023	11 Nov 2022	06 Jul 2022
Machine Hours	<b>6060</b>	5055	4478	3984
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Not Changd	Changed
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ATTENTION	NORMAL

**ALTA CONSTRUCTION EQUIPMENT**  
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## OIL CONDITION

Visc @ 40°C	cSt	<b>149</b>	53.6	56.0	108
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## CONTAMINATION

Silicon	ppm	<b>17</b>	8	5	9
Sodium	ppm	<b>2</b>	<1	1	<1
Potassium	ppm	<b>&lt;1</b>	<1	<1	0



## WEAR METALS

Iron	ppm	<b>599</b>	620	307	173
Copper	ppm	<b>4</b>	5	3	2
Lead	ppm	<b>&lt;1</b>	0	<1	0
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>3</b>	<1	<1	<1
Chromium	ppm	<b>11</b>	7	3	2
Molybdenum	ppm	<b>15</b>	12	6	4
Nickel	ppm	<b>6</b>	5	2	<1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>6</b>	6	4	3
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>2659</b>	50	182	9
Magnesium	ppm	<b>32</b>	3	4	<1
Zinc	ppm	<b>1127</b>	40	99	36
Phosphorus	ppm	<b>1446</b>	2003	2162	821
Barium	ppm	<b>0</b>	0	0	4
Boron	ppm	<b>139</b>	164	156	37

## Diagnosis

Resample at the next service interval to monitor. Gear wear is indicated. 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:** VOLVO5055  
**Unique No:** 10589829  
**Signed:** Sean Felton  
**Report Date:** 08 Aug 2023



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## GRAPHS

