



# CONSTRUCTION EQUIPMENT

## SWA162865 RANGO VOLVO A45G 342450 - DROP BOX



**Sample No:** VCP403422  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** SWA162865 RANGO



### SAMPLE INFORMATION

Sample Number	<b>VCP403422</b>	VCP365282	VCP377325	VCP346309
Sample Date	<b>08 Feb 2023</b>	18 Aug 2022	25 Jun 2022	05 Mar 2022
Machine Hours	<b>8555</b>	7320	6792	6155
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>N/A</b>	Changed	Not Changd	Changed
Sample Status	<b>SEVERE</b>	NORMAL	NORMAL	NORMAL

**ALTA CONSTRUCTION EQUIPMENT**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>149</b>	142	143	52.4
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### CONTAMINATION

Silicon	ppm	<b>20</b>	16	13	21
Sodium	ppm	<b>0</b>	0	0	0
Potassium	ppm	<b>1</b>	1	0	3



### WEAR METALS

Iron	ppm	<b>1481</b>	534	408	289
Copper	ppm	<b>15</b>	13	11	7
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>4</b>	4	4	<1
Chromium	ppm	<b>20</b>	8	7	2
Molybdenum	ppm	<b>11</b>	4	4	3
Nickel	ppm	<b>12</b>	<1	1	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>14</b>	8	7	6
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>440</b>	2153	2045	69
Magnesium	ppm	<b>6</b>	22	21	1
Zinc	ppm	<b>199</b>	799	721	76
Phosphorus	ppm	<b>1642</b>	1132	987	2131
Barium	ppm	<b>0</b>	0	4	0
Boron	ppm	<b>114</b>	95	81	196

### Diagnosis

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO5055  
**Unique No:** 10337105  
**Signed:** Don Baldrige  
**Report Date:** 16 Feb 2023



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## GRAPHS

