



# CONSTRUCTION EQUIPMENT

## SWA311403 RENTAL VOLVO A45G 342486 - HYDRAULIC SYSTEM



**Sample No:** VCP409139  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWA311403 RENTAL



### SAMPLE INFORMATION

Sample Number	<b>VCP409139</b>	VCP354850	VCP346452	VCP361688
Sample Date	<b>27 Jul 2023</b>	05 Aug 2022	18 May 2022	26 Feb 2022
Machine Hours	<b>8804</b>	6436	5765	5317
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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

Visc @ 40°C	cSt	<b>43.8</b>	43.4	41.5	42.7
Acid Number (AN)	mg KOH/g	<b>0.39</b>	0.33	0.39	0.47



### CONTAMINATION

Particles >4µm		<b>3608</b>	5002	3177	4396
Particles >6µm		<b>390</b>	934	573	440
Particles >14µm		<b>18</b>	54	21	24
ISO 4406:1999 (c)		<b>19/16/11</b>	20/17/13	19/16/12	19/16/12
Silicon	ppm	<b>4</b>	5	8	8
Sodium	ppm	<b>0</b>	<1	1	<1
Potassium	ppm	<b>2</b>	0	0	2

### 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 amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>6</b>	5	8	12
Copper	ppm	<b>0</b>	4	6	7
Lead	ppm	<b>&lt;1</b>	<1	<1	1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	3	3	4
Chromium	ppm	<b>&lt;1</b>	<1	<1	2
Molybdenum	ppm	<b>&lt;1</b>	0	<1	2
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>0</b>	0	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>195</b>	52	66	155
Magnesium	ppm	<b>8</b>	7	10	30
Zinc	ppm	<b>548</b>	457	474	887
Phosphorus	ppm	<b>391</b>	340	397	672
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	0	1	1

**Depot:** VOLVO5055  
**Unique No:** 10589288  
**Signed:** Don Baldrige  
**Report Date:** 08 Aug 2023



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## GRAPHS

