

# **CONSTRUCTION EQUIPMENT**

SWO-066023 APAC TREM VOLVO L180H 5494 - HYDRAULIC SYST

Sample No: VCP435383

Oil Type: AW HYDRAULIC OIL ISO 46

Job No: SWO-066023 APAC TREM

SAMPLE II	NFORMATION				
Sample Number		VCP435383	VCP424592	VCP410121	VCP369027
Sample Date		21 Sep 2023	07 Jul 2023	03 Apr 2023	10 Nov 2022
Machine Hours		4058	3620	3078	2519
Oil Hours		0	0	0	0
Oil Changed		Changed	Not Changd	Not Changd	Not Changd
Sample Status		SEVERE	ABNORMAL	ATTENTION	ABNORMAL
OIL CONDI	TION				
Visc @ 40°C	cSt	<b>43.0</b>	<b>□</b> 47.0	<b>43.0</b>	<b>43.8</b>
Acid Number (AN)		0.36	0.54	0.32	0.34
Acid Number (AIV)	mg kon/g	<b>0.30</b>	0.54	<b>□</b> 0.52	0.54
VOLVO					
CONTAMIN	NATION				
Particles >4µm		<b>60522</b>	<u> </u>	<u></u> 5700	<u> </u>
Particles >6µm		<b>25473</b>	<b>4</b> 920	<b>722</b>	<b>△</b> 3138
Particles > 14µm		2124	<b>1</b> 95	<b>1</b> 3	<b>△</b> 232
ISO 4406:1999 (c)		23/22/18	21/19/15	20/17/11	21/19/15
Silicon	ppm	<b>■</b> 3	<b>-</b> <1	<b>3</b>	<b>2</b>
Sodium	ppm	<b>1</b>	<b>-</b> <1	■0	<b>0</b>
Potassium	ppm	<b>■&lt;1</b>	< 1	<b>1</b>	<b>2</b>
WEAR ME	TALS				
Iron	ppm	<b>1</b> 3	□0	<b>3</b>	<b>1</b> 2
Copper	ppm	<b>3</b>	0	<b>3</b>	3
Lead	ppm	<b></b>	<b>1</b> 0	<b>2</b>	<b>2</b>
Tin	ppm	<b>-</b> <1	0	0	<b>=</b> <1
Aluminum	ppm	<b>0</b>	<b>1</b> 0	■0	<b>1</b>
Chromium	ppm	<b>□</b> <1	<1	<b>=</b> <1	<1
Molybdenum	ppm	■0	<b>2</b>	<b>□</b> <1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	2
Manganese	ppm	<b>■&lt;1</b>	<b>□</b> <1	<b>1</b> 0	□0
Vanadium	ppm	<1	<1	0	0
VOLVO					
ADDITIVE:	7				

**175** 

**27** 

**472** 

■376

**0** 

**7**1

**2** 

443

□322

**0** 

**58** 

\_2

**453** 

■332

**0** 



#### **COWIN EQUIPMENT COMPANY**

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## Diagnosis

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation.All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot:VOLVO8528Unique No:10662405Signed:Wes DavisReport Date:27 Sep 2023

**59** 

**-**<1

**421** 

**■336** 

**0** 

**0** 

ppm

ppm

ppm

ppm

ppm

ppm

Calcium

Zinc

Barium

Boron

Magnesium

Phosphorus



# **CONSTRUCTION EQUIPMENT**





### GRAPHS

