

# CONSTRUCTION EQUIPMENT 661396 VOLVO L110H 631024 - HYDRAULIC SYSTEM



Sample No: VCP438084

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

**Job No:** 661396

VOLVO	NFORMATION				
_	NFURMATIUN		1405405406		
Sample Number		VCP438084	VCP405126	VCP381301	VCP360965
Sample Date		10 Feb 2024	18 Apr 2023	02 Nov 2022	18 Apr 2022
Machine Hours		10869	9834	9345	8655
Oil Hours		0	0	0	0
Oil Changed		Not Changd	Not Changd	Not Changd	Not Changd
Sample Status		ABNORMAL	ABNORMAL	NORMAL	NORMAL
VOLVO					
OIL COND	ITION				
Visc @ 40°C	cSt	<b>43.5</b>	<b>43.3</b>	<b>43.3</b>	<b>□</b> 43.6
Acid Number (AN)		0.30	0.31	0.35	1.05
Acid Number (AN)	mg kon/g	<b>0.30</b>	0.51	0.55	1.05
VOLVO					
CONTAMI	NATION				
Water	%	NEG	NEG	NEG	NEG
Particles >4µm			11980	3418	4803
Particles >6µm			<b>2930</b>	<b>576</b>	<b>□</b> 543
Particles > 14µm			<b>1</b> 79	□ 29	<b>1</b> 3
ISO 4406:1999 (c)			21/19/15	19/16/12	19/16/11
Silicon	ppm	<b>4</b>	4	□3	<b>4</b>
Sodium	ppm	<b>4</b>	<b>1</b> 4	<b>3</b>	<u> </u>
Potassium	ppm	■0	0	□0	<b>1</b> 0
	I. I.				
VOLVO	TALC				
<b>WEAR ME</b>	: IALS				
Iron	ppm	<b>13</b>	<b>1</b> 2	<b>1</b> 2	<b>1</b> 1
Copper	ppm	<b>■</b> 3	<b>3</b>	<b>3</b>	<b>4</b>
Lead	ppm	■3	<b>0</b>	<b>2</b>	<b>2</b>
Tin	ppm	<b>■&lt;1</b>	<b>0</b>	<b></b>	<b>-</b> <1
Aluminum	ppm	<b>1</b>	<b>-</b> <1	<b></b>	<b>-</b> < 1
Chromium	ppm	<b>■&lt;1</b>	0	<b></b>	<b>-</b> <1
Molybdenum	ppm	■0	<b>-</b> <1	<b></b> <1	<b></b> <1
Nickel	ppm	<b>■</b> 0	<b>0</b>	<b>0</b>	<b>0</b>
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<b>0</b>	<b>-</b> < 1	<b>0</b>	<b>0</b>
Vanadium	ppm	0	0	0	0
ADDITIVE	7				
_					
Calcium	ppm	<b>124</b>	■135	■124	□135
Magnesium	ppm	<b>14</b>	<b>1</b> 5	<b>1</b> 1	■13
Zinc	ppm	<b>468</b>	<b>421</b>	<b>424</b>	<b>422</b>

354

351



#### **HUBBARD CONSTRUCTION**

303 WEST LANDSTREET ROAD ORLANDO, FL US 32824 Contact: RAY BIRKO ray.birko@hubbard.com T: (407)855-3535 F: (407)857-1282

#### Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Depot:HUBORLUnique No:10876162Signed:Jonathan HesterReport Date:15 Feb 2024

374

Contact/Location: RAY BIRKO - HUBORL

ppm

ppm

ppm

352

**■**0

Phosphorus

Barium

Boron



## **CONSTRUCTION EQUIPMENT**





### **GRAPHS**







