

## CONSTRUCTION EQUIPMENT VOLVO SD 1 15B 236555 - HYDRAULIC SYSTEM



Sample No: VCP392748

Oil Type: VOLVO SUPER HYDRAULIC OIL 46

Job No:

Barium

Boron

SAMPLE	INFORMATION				
Sample Number		VCP392748	VCP386102	VCP359055	VCP343524
Sample Date		18 Aug 2023	14 Sep 2022	02 May 2022	30 Nov 2021
Machine Hours		5688	5481	5221	4650
Oil Hours		0	500	500	2000
Oil Changed		Not Changd	Not Changd	Not Changd	Changed
Sample Status		ABNORMAL	NORMAL	NORMAL	ABNORMAL
		71211011111111			, 1511011111111
VOLVO	NITION				
OIL CONE	JIIIUN				
Visc @ 40°C	cSt	■39.1	■39.1	■38.3	<b>29.6</b>
Acid Number (AN	) mg KOH/g	<b>0.41</b>	■ 0.40	■ 0.46	■ 0.471
VOLVO					
CONTAM	INATION				
Particles >4µm			<b>■</b> 957	□ 7490	<b>□</b> 965
Particles >6µm			77	1971	<b>1</b> 99
Particles > 14µm			<b>1</b>	■ 160	■14
ISO 4406:1999 (c)			17/13/7	20/18/14	17/14/11
Silicon	ppm	<b>6</b>	<u>5</u>	<u>5</u>	<b>1</b> 13
Sodium	ppm	<b>■&lt;1</b>	<1	<b>1</b>	<b>3</b>
Potassium	ppm	<b>■</b> 0	<b>1</b> 0	■ <1	<b>■</b> <1
	r r	_		_	_
VOLVO WEAD M	ETALC				
WEAR M	F1AL2				
ron	ppm	■ 23	■19	<b>1</b> 7	<u>^</u> 25
Copper	ppm	<b>6</b>	<b>5</b>	<b>4</b>	<b>1</b> 0
Lead	ppm	<b>1</b>	_1	<b>1</b>	<b>2</b>
Tin	ppm	■0	<1	<1	<1
Aluminum	ppm	■2	<b>1</b>	<b>1</b>	<b>2</b>
Chromium	ppm	<b>0</b>	0	<b>0</b>	<u> </u>
Molybdenum	ppm	<b>2</b>	_2	<b>3</b>	<b>7</b>
Vickel	ppm	■0	0	<b>0</b>	<b>0</b>
Titanium 	ppm	0	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<b>=</b> <1	<1	<b>=</b> <1	<b>-</b> <1
/anadium	ppm	<1	0	0	<1
VOLVO					
<b>ADDITIV</b>	ES				
Calcium	ppm	<b>122</b>	<b>1</b> 115	<b>125</b>	<b>264</b>
Magnesium	ppm	■ 13	12	<b>1</b> 16	43
Zinc	ppm	■375	<b>363</b>	392	<b>□</b> 340
Phosphorus	ppm	■318	320	■346	310
D '	ρρ				

**0** 

**0** 

**0** 



# RIPA AND ASSOCIATES 10149 FISHER AVENUE TAMPA, FL US 33619 Contact: ROBERT TURNER rturner@ripatampa.com T:

F:

#### Diagnosis

No corrective action is recommended at this time. 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:RIPTAMUnique No:10617346Signed:Don BaldridgeReport Date:24 Aug 2023

**0** 

ppm

ppm



### **CONSTRUCTION EQUIPMENT**





#### **GRAPHS**







