CONSTRUCTION EQUIPMENT RS0037772 HITACHI ZX245 514303 - HYDRAULIC SYSTEM

Sample No:	VCP438622			
Oil Type:	HITACHI HYDRAULIC SUPER EX 46HN			
Job No:	RSO037772			

# SAMPLE INFORMATION

VOLVO

Sample Number	-	VCP438622	 
Sample Date		25 Apr 2024	 
Machine Hours		685	 
Oil Hours		0	 
Oil Changed		Not Changd	 
Sample Status		NORMAL	 
VOLVO			
OIL CONDI	TION		
Visc @ 40°C	cSt	<b>45.9</b>	 
Acid Number (AN)	mg KOH/g	0.163	 
VOLVO			

CONTAMI	NATION			
Water	%	NEG	 	
Particles >4µm		<b>1769</b>	 	
Particles >6µm		290	 	
Particles >14µm		34	 	
ISO 4406:1999 (c)		18/15/12	 	
Silicon	ppm		 	
Sodium	ppm	<b></b> <1	 	
Potassium	ppm	0	 	

## 🎾 WEAR METALS

Iron	ppm		 	
Copper	ppm	2	 	
Lead	ppm	0	 	
Tin	ppm	■ <1	 	
Aluminum	ppm	0	 	
Chromium	ppm	<b></b> <1	 	
Molybdenum	ppm	0	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	<b></b> <1	 	
Vanadium	ppm	0	 	

OLVO

ADDITI	VES			
Calcium	ppm	2	 	
Magnesium	ppm	<b>1</b>	 	
Zinc	ppm	31	 	
Phosphorus	ppm	550	 	
Barium	ppm	0	 	
Boron	ppm	0	 	



#### **COWIN EQUIPMENT - ATLANTA**

5710 RIVERVIEW RD MABLETON, GA US 30126 Contact: WILL BICE wbice@cowin.com T: (762)207-0004 F:

### 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.

 Depot:
 COWMAB

 Unique No:
 11003479

 Signed:
 Don Baldridge

 Report Date:
 01 May 2024

 Contact/Location:
 WILL BICE - COWMAB

Report Id: COWMAB [WUSCAR] 06162760 (Generated: 05/01/2024 14:59:27) Rev: 1

# **CONSTRUCTION EQUIPMENT**



🥜 GRAPHS

VOLVO

#### Ferrous Alloys Particle Count 10 <del>-</del> 491.520 -26 iron 9 chromium 245,760 -25 nickel 8 122,880 -24 61,440 -23 ß mdo E, 30,720 22 15,360 -21 2 7.680 20 bnorma 3,840 -19 0 ....................... 1,920 18 🛛 ber of particles (per 1 ml) Apr25/24 Apr25/ 4406:1999 Cleanlines 960 17 Non-ferrous Metals 480 16 10 15 copper 240 q lead 14 120 8 -13 60 ß 30 12 mdo Ę 15 11 2 8 10 4 2 Ω Apr25/24 Apr25/24 21µ 38µ 14µ Viscosity @ 40°C Acid Number 53. 0.18 52 Abnormal 51 0.16 50 0.14 49 (B/HO) HOX 48 cSt (40°C) Ê 0.10 47 80.0 Number 46 45 - Pig 0.06 44 43 0.04 Abnorma 42 0.02 41 0.00-40 Apr25/24 Apr25/24 Apr25/24 Apr25/24

Report Id: COWMAB [WUSCAR] 06162760 (Generated: 05/01/2024 14:59:30) Rev: 1

Contact/Location: WILL BICE - COWMAB