CONSTRUCTION EQUIPMENT SIMS SENNEBOGEN 830 830.0.3197 - HYDRAULIC SYSTEM

Sample No:VCP401665Oil Type:SENNEBOGEN HD 46Job No:SIMS

ZOINZ

SAMPLE INFORMATION

Sample Number	VCP401665				
Sample Date	15 May 2023				
Machine Hours	2002				
Oil Hours	2000				
Oil Changed	Not Changd				
Sample Status	ABNORMAL				
Visc @ 40°C cSt	4 34.6				
Acid Number (AN) mg KOH/g	1.03				
CONTAMINATION					
Particles >4µm	A 15409				
Particles >6µm	A 3282				

Particles >6µm		<u> </u>	 	
Particles >14µm		152	 	
ISO 4406:1999 (c))	21/19/14	 	
Silicon	ppm	2	 	
Sodium	ppm		 	
Potassium	ppm	2	 	

WEAR METALS

Iron	ppm	6	 	
Copper	ppm	15	 	
Lead	ppm	2	 	
Tin	ppm		 	
Aluminum	ppm	■ <1	 	
Chromium	ppm	0	 	
Molybdenum	ppm	<1	 	
Nickel	ppm		 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	0	 	
Vanadium	ppm	0	 	

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Calcium	ppm	1163	 	
Magnesium	ppm	3	 	
Zinc	ppm	699	 	
Phosphorus	ppm	532	 	
Barium	ppm	0	 	
Boron	ppm	0	 	



GREEN MACHINE SERVICES LLC

13 SPYROS DRIVE SOUTH AMBOY, NJ US 08879 Contact: JOE GRZANKOWSKI JOE@GREENMSRV.COM T: (732)673-5920 E:

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.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

Depot:	GRESOUNJ
Unique No:	10506412
Signed:	Don Baldridge
Report Date:	08 Jun 2023

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO

Ferrous Alloys A Particle Count 10 - 491,520--26 iron 9 •• chromium 245,760 -25 nickel 8 122,880 -24 61,440 -23 ß ppm E, 30,720 -22 15,360 -21 2 7,680 20 3,840 -19 0 1,920 18 🛛 umber of particles (per 1 ml) 5/23 May15/23 4406:1999 Cleanlines: Mayl 960 17 Non-ferrous Metals 16 480 16 15 240 14 🖛 lead 14 tin 120 12 -13 60 10 30 12 mdo 8 15 11 6 10 8 4 2 8 Ω May15/23 May1 0, 21µ 14μ 38µ Viscosity @ 40°C Acid Number 52 1.1 Abnormal 50 1.0 48 0.9 ^{(60.8}) (6/H0 0.7 46 44 (0°04) 45 (0°04) 45 Ē 0.6 Acid Number 0.5 Abnormal 40 0.4 38 0.3 36 0.2 34 0.1 0.0 32 May15/23 May15/23 May15/23 May15/23

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