CONSTRUCTION EQUIPMENT SPM606653 SENNEBOGEN 835 835.0.3213 - DIESEL ENGINE

Sample No:	VCP415027
Oil Type:	DIESEL ENGINE OIL SAE 15W40
Job No:	SPM606653

VOLVO

## SAMPLE INFORMATION VCP415027 Sample Number Sample Date 12 Sep 2023 Machine Hours 543 Oil Hours 0 Oil Changed Changed ABNORMAL Sample Status **OIL CONDITION** Visc @ 100°C cSt **11.5** Base Number (BN) mg KOH/g 5.8 Oxidation (PA) 72 % CONTAMINATION 0.2 % Soot % Nitration (PA) % 88 Sulfation (PA) % 56

Sanation (179	70			
Glycol	%	NEG	 	
Fuel	%	<b>2.3</b>	 	
Silicon	ppm	<b>1</b> 9	 	
Sodium	ppm	6	 	
Potassium	ppm	85	 	

WEAR METALS

Iron	ppm	30	 	
Copper	ppm	<b>12</b>	 	
Lead	ppm	■<1	 	
Tin	ppm		 	
Aluminum	ppm	26	 	
Chromium	ppm	∎1	 	
Molybdenum	ppm	77	 	
Nickel	ppm		 	
Titanium	ppm	<b>1</b>	 	
Silver	ppm	0	 	
Manganese	ppm	6	 	
Vanadium	ppm	0	 	

Vanadia

ADDITI	VES			
Calcium	ppm	2127	 	
Magnesium	ppm	276	 	
Zinc	ppm	<b>1252</b>	 	
Phosphorus	ppm	<b>1002</b>	 	
Barium	ppm	9	 	
Boron	ppm	35	 	



## SIMS METAL MANAGEMENT

2500 S. PAULINA CHICAGO, IL US 60608 Contact: RYAN WISE ryan.wise@simsmm.com T: F:

## Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.Metal levels are typical for a new component breaking in. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. Light fuel dilution occurring. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The condition of the oil is suitable for further service.

 Depot:
 SIMCHIIL

 Unique No:
 10658035

 Signed:
 Wes Davis

 Report Date:
 22 Sep 2023

Report Id: SIMCHIIL [WUSCAR] 05956822 (Generated: 10/01/2023 05:37:46) Rev: 1

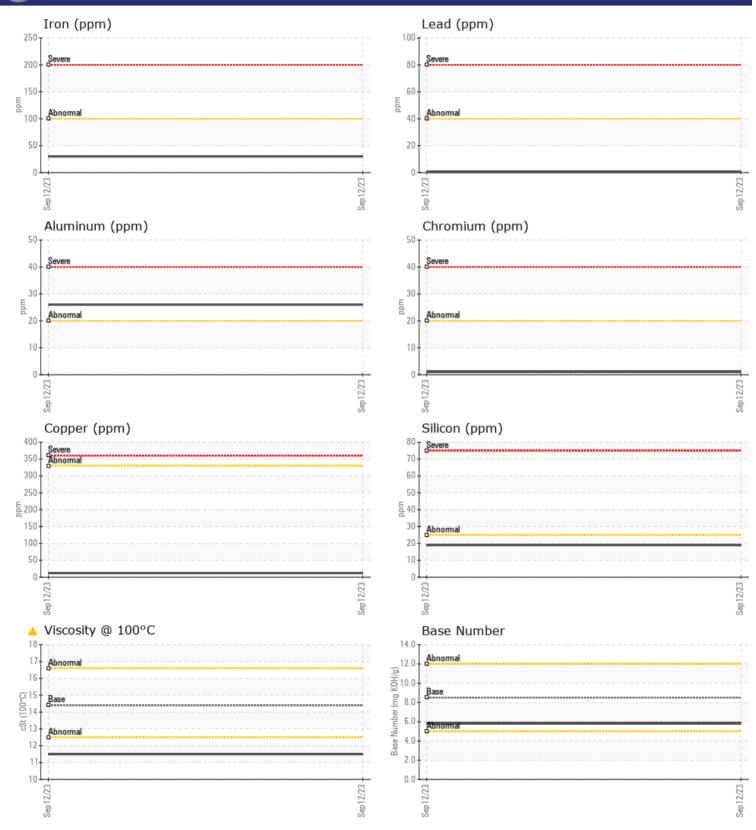
Contact/Location: RYAN WISE - SIMCHIIL

## **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



Report Id: SIMCHIIL [WUSCAR] 05956822 (Generated: 10/01/2023 05:37:50) Rev: 1

Contact/Location: RYAN WISE - SIMCHIIL