## CONSTRUCTION EQUIPMENT CMC SENNEBOGEN 850 850.0.3186 - DIESEL ENGINE



### Sample No: VCP438010

VOIN

Oil Type:	VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:	СМС

### SAMPLE INFORMATION

Sample Number		VCP438010	VCP407784	 
Sample Date		02 Jan 2024	11 Sep 2023	 
Machine Hours		1899	446	 
Oil Hours		500	446	 
Oil Changed		Changed	Changed	 
Sample Status		NORMAL	ATTENTION	 
OIL CONDI	TION			
Visc @ 100°C	cSt	13.0	<b>1</b> 1.4	 
Base Number (BN)	mg KOH/g	7.3	6.6	 
Oxidation (PA)	%	117	62	 
CONTAMI	NATION			
Water	%	NEG	NEG	 
Soot %	%	0.2	0.1	 
Nitration (PA)	%	101	83	 
Sulfation (PA)	%	71	53	 
Glycol	%	NEG	0.0	 
Fuel	%	<1.0	0.8	 
Silicon	ppm	5	6	 
Sodium	ppm	<b>1</b>	6	 
Potassium	ppm	43	90	 

#### WEAR METALS

	161763			
Iron	ppm	<b>40</b>	16	 
Copper	ppm	<b>4</b>	8	 
Lead	ppm	2	2	 
Tin	ppm	0	<1	 
Aluminum	ppm	9	22	 
Chromium	ppm	<b>1</b>	<1	 
Molybdenum	ppm	52	87	 
Nickel	ppm	0	0	 
Titanium	ppm	0	0	 
Silver	ppm	0	0	 
Manganese	ppm	<b>1</b>	2	 
Vanadium	ppm	0	<1	 

ADDITIVES					
Calcium	ppm	<b>1845</b>	2333		
Magnesium	ppm	562	145		
Zinc	ppm	1253	1407		
Phosphorus	ppm	920	1101		
Barium	ppm	<b>4</b>	4		
Boron	ppm	<b>49</b>	40		



#### GREEN MACHINE SERVICES LLC

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

#### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.All component wear rates are normal. 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. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

 Depot:
 GRESOUNJ

 Unique No:
 10835357

 Signed:
 Sean Felton

 Report Date:
 22 Jan 2024

Report Id: GRESOUNJ [WUSCAR] 06063975 (Generated: 01/22/2024 15:52:02) Rev: 1

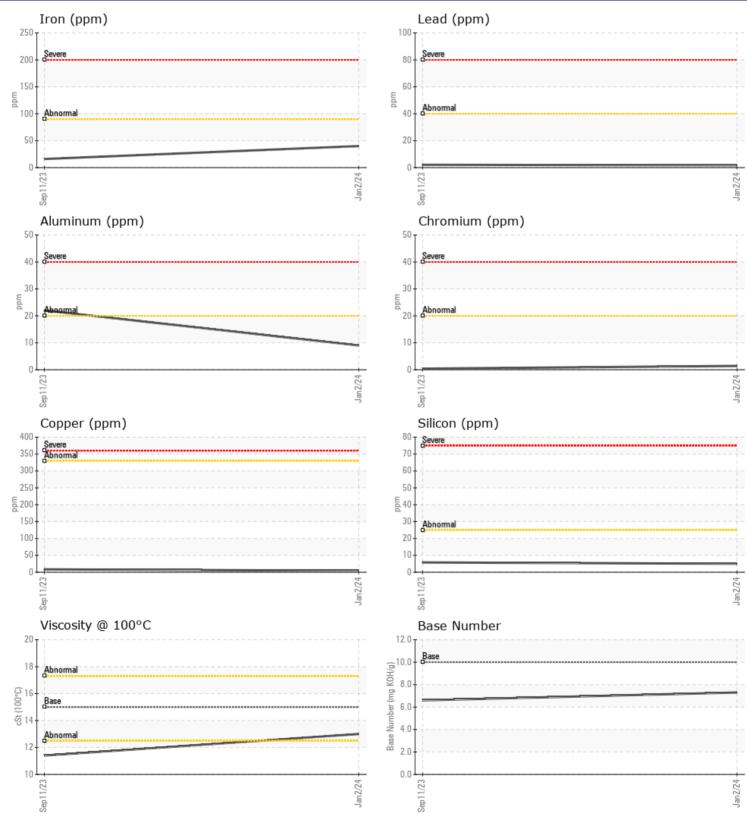
Contact/Location: JOE GRZANKOWSKI - GRESOUNJ

# **CONSTRUCTION EQUIPMENT**



GRAPHS

VOLVO



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Contact/Location: JOE GRZANKOWSKI - GRESOUNJ