



# CONSTRUCTION EQUIPMENT

SPM688692 SENNEBOGEN 835ME 835.0.2542 - DIESEL ENGINE



**Sample No:** VCP426473  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SPM688692



## SAMPLE INFORMATION

Sample Number	<b>VCP426473</b>	VCP423439	VCP404747	VCP389997
Sample Date	<b>01 Apr 2024</b>	10 Jul 2023	04 Apr 2023	06 Dec 2022
Machine Hours	<b>9624</b>	8163	7921	7465
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### SIMS METAL MANAGEMENT

2500 S. PAULINA  
 CHICAGO, IL  
 US 60608

Contact: RYAN WISE  
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 T:  
 F:



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.2	12.6	13.1
Base Number (BN)	mg KOH/g	<b>8.6</b>	9.3	8.8	9.0
Oxidation (PA)	%	<b>71</b>	64	67	68

### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.1	0.2	0.1
Nitration (PA)	%	<b>75</b>	66	74	73
Sulfation (PA)	%	<b>57</b>	55	55	56
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	2	4	3
Sodium	ppm	<b>&lt;1</b>	2	1	2
Potassium	ppm	<b>0</b>	0	2	<1



## WEAR METALS

Iron	ppm	<b>9</b>	4	6	4
Copper	ppm	<b>1</b>	<1	2	1
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>1</b>	<1	0	1
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>59</b>	63	56	60
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	<1	1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



## ADDITIVES

Calcium	ppm	<b>1139</b>	1136	1073	1098
Magnesium	ppm	<b>1000</b>	1069	879	939
Zinc	ppm	<b>1221</b>	1305	1156	1247
Phosphorus	ppm	<b>1015</b>	1043	940	964
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>3</b>	0	8	0

**Depot:** SIMCHIL  
**Unique No:** 10989310  
**Signed:** Angela Borella  
**Report Date:** 23 Apr 2024

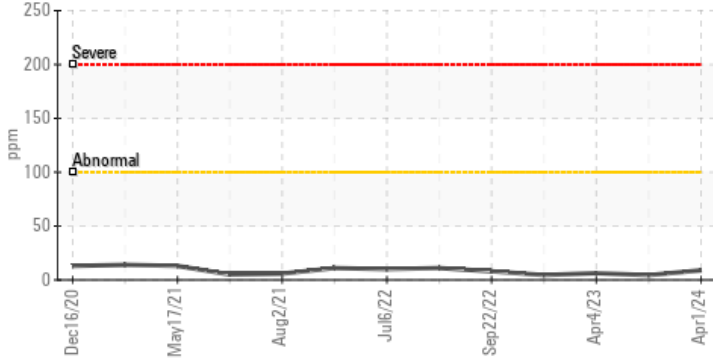


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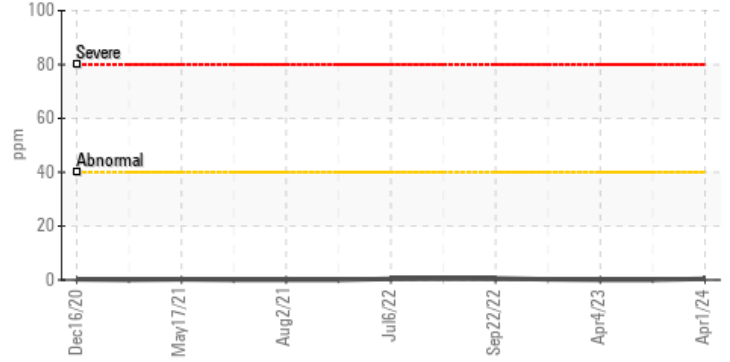


## GRAPHS

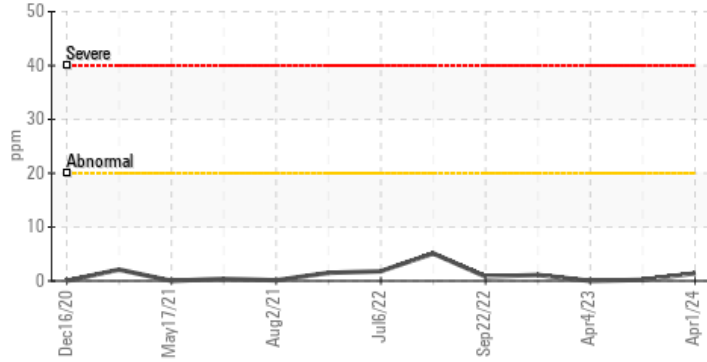
### Iron (ppm)



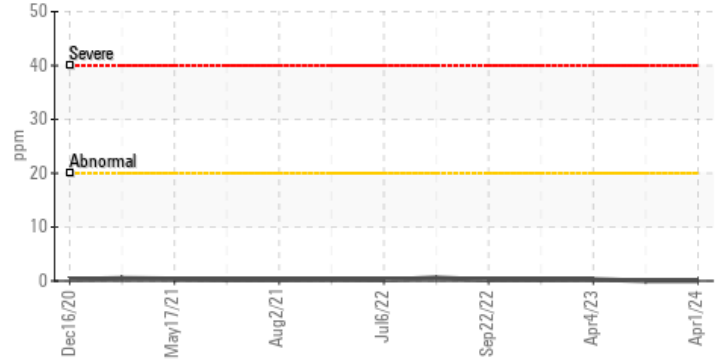
### Lead (ppm)



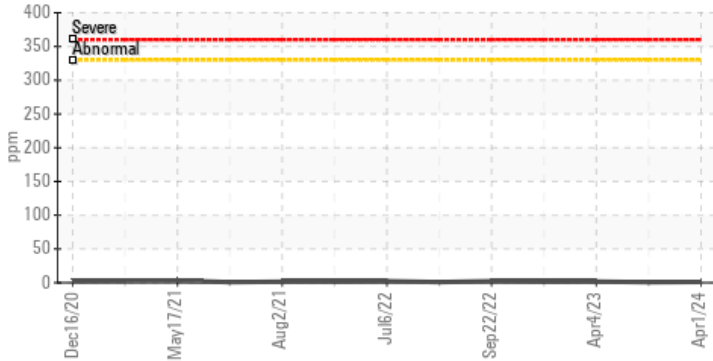
### Aluminum (ppm)



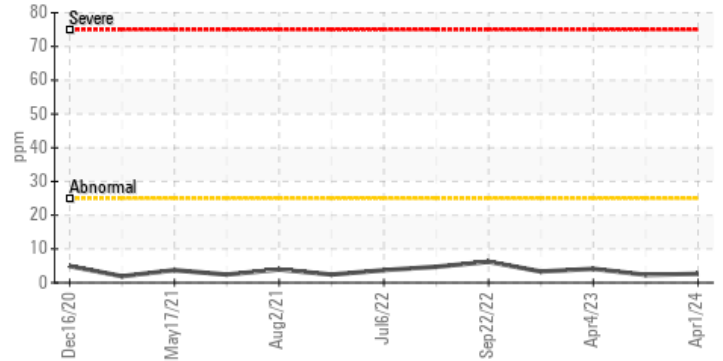
### Chromium (ppm)



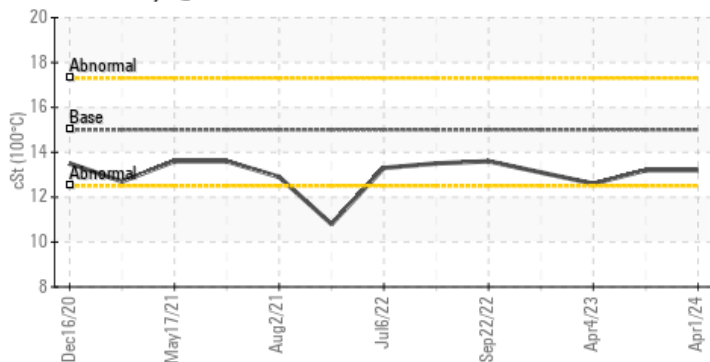
### Copper (ppm)



### Silicon (ppm)



### Viscosity @ 100°C



### Base Number

