



# CONSTRUCTION EQUIPMENT

## SPM581453 SENNEBOGAN 835M 835.0.2 195 - DIESEL ENGINE



**Sample No:** VCP401722  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SPM581453



### SAMPLE INFORMATION

Sample Number	<b>VCP401722</b>	VCP404343	VCP343321	VCP342088
Sample Date	<b>02 Aug 2023</b>	03 Apr 2023	24 Aug 2022	14 Dec 2021
Machine Hours	<b>18054</b>	17516	16508	15475
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	ATTENTION

### 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>14.8</b>	12.3	13.0	▲ 12.1
Base Number (BN)	mg KOH/g	<b>8.8</b>	6.2	8.0	9.3
Oxidation (PA)	%	<b>54</b>	86	66	67

### 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

Soot %	%	<b>0.1</b>	0.5	0.2	0.2
Nitration (PA)	%	<b>47</b>	103	88	82
Sulfation (PA)	%	<b>49</b>	65	58	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	1.9	<1.0	1.3
Silicon	ppm	<b>5</b>	7	10	6
Sodium	ppm	<b>2</b>	0	1	3
Potassium	ppm	<b>2</b>	2	4	2



### WEAR METALS

Iron	ppm	<b>6</b>	44	18	13
Copper	ppm	<b>13</b>	213	▲ 384	<1
Lead	ppm	<b>0</b>	0	<1	1
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	2	4	2
Chromium	ppm	<b>&lt;1</b>	2	<1	<1
Molybdenum	ppm	<b>55</b>	40	33	1
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>&lt;1</b>	0	1	0
Manganese	ppm	<b>&lt;1</b>	1	3	<1
Vanadium	ppm	<b>0</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1054</b>	1256	1766	1280
Magnesium	ppm	<b>955</b>	798	331	660
Zinc	ppm	<b>1272</b>	1084	1026	793
Phosphorus	ppm	<b>1024</b>	861	821	641
Barium	ppm	<b>0</b>	0	7	0
Boron	ppm	<b>4</b>	14	33	79

**Depot:** SIMCHIL  
**Unique No:** 10601881  
**Signed:** Wes Davis  
**Report Date:** 11 Aug 2023



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## GRAPHS

