

[SPM702306] SENNEBOGEN 835 835.0.3213 Component

Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (--- GAL)

Resample at the next service interval to monitor. Test UOM Method Limit/Ab Current History1 Sample Number Client Info Client Info VCP446156 VCP415027 Sample Date Client Info Client Info 16 Jun 2024 12 Sep 2023 Machine Age hrs Client Info 2305 543 Oil Age hrs Client Info 0 0 Filter Age hrs Client Info 0 0 Oil Changed Client Info Changed Changed Changed Changed Filter Changed Client Info Client Info Changed Changed Changed Changed Changed WEAR Iron ppm ASTM D5185m >100 38 30	
Resample at the next service interval to monitor. Sample Date Client Info 16 Jun 2024 12 Sep 2023 Machine Age hrs Client Info 2305 543 Oil Age hrs Client Info 0 0 Filter Age hrs Client Info 0 0 Oil Changed Client Info 0 0 0 Oil Changed Client Info 0 0 0 Oil Changed Client Info 0 0 0 Oil Changed Client Info Changed Changed Changed Filter Changed Client Info Changed Changed Changed Sample Status Vertice NORMAL ABNORMAL	
Machine Age hrs Client Info 2305 543 Oil Age hrs Client Info 0 0 Filter Age hrs Client Info 0 0 Oil Changed Client Info 0 0 0 Filter Age hrs Client Info 0 0 Oil Changed Client Info Changed Changed Changed Filter Changed Client Info Changed Changed Changed Sample Status NORMAL ABNORMAL WEAR Iron ppm ASTM D5185m >100 38 30	
Oil Age hrs Client Info 0 0 Filter Age hrs Client Info 0 0 Oil Changed Client Info Changed Changed Changed Changed Filter Changed Client Info Changed Changed Changed Changed Filter Changed Client Info Changed Changed Changed Sample Status VEAR Iron ppm ASTM D5185m >100 38 30	
Filter Age hrs Client Info 0 0 Oil Changed Client Info Changed Changed Changed Changed Filter Changed Client Info Changed Changed Changed Changed Sample Status VEAR Iron ppm ASTM D5185m >100 38 30	
Oil Changed Client Info Changed Change	
Filter Changed Sample Status Client Info Changed NORMAL Changed ABNORMAL VEAR Iron ppm ASTM D5185m >100 38 30	
Sample Status NORMAL ABNORMAL VEAR Iron ppm ASTM D5185m >100 38 30	
VEAR Iron ppm ASTM D5185m >100 38 30	
Chromium ppm ASTM D5185m >20 1 1	
All component wear rates are normal. Nickel ppm ASTM D5185m >4 0 <1	
Titanium ppm ASTM D5185m 0 1	
Silver ppm ASTM D5185m >3 0 0	
Aluminum ppm ASTM D5185m >20 8 26	
Lead ppm ASTM D5185m >40 0 <1	
Copper ppm ASTM D5185m >330 8 12	
Tin ppm ASTM D5185m >15 1 <1	
Vanadium ppm ASTM D5185m 0 0	
White Metal scalar *Visual NONE NONE NONE	
Yellow Metal scalar *Visual NONE NONE NONE	
CONTAMINATION Silicon ppm ASTM D5185m >25 7 19	
There is no indication of any contamination in the oil. Potassium ppm $ASTM D5185m > 20$ <1 85 Fuel WC Method >5 <1.0 \triangle 2.3	
Water WC Method >0.2 NEG	
Glycol WC Method NEG NEG	
Soot % % *ASTM D7844 >3 0.2 0.2	
Nitration Abs/cm *ASTM D7624 >20 11.0 10.6	
Sulfation Abs/.1mm *ASTM D7415 >30 26.5 20.2	
Silt scalar *Visual NONE NONE NONE	
Debris scalar *Visual NONE NONE NONE	
Sand/Dirt scalar *Visual NONE NONE NONE	
Appearance scalar *Visual NORML NORML NORML	
Odor scalar *Visual NORML NORML NORML	
Emulsified Water scalar *Visual >0.2 NEG NEG	
LUID CONDITION Sodium ppm ASTM D5185m >158 2 6	
The BN result indicates that there is suitable alkalinity remaining in the Boron ppm ASTM D5185m 250 35 35	
il The condition of the oil is acceptable for the time in service	
Molybdenum ppm ASIM D5185m 100 43 77	
Manganese ppm ASTM D5185m <1 6	
Magnesium ppm ASTM D5185m 450 704 276	
Calcium ppm ASTM D5185m 3000 1638 2127	
Phosphorus ppm ASTM D5185m 1150 1128 1002	
Zinc ppm ASTM D5185m 1350 1269 1252	
Sulfur ppm ASTM D5185m 4250 4181 4412	
Oxidation Abs/.1mm *ASTM D7414 >25 28.9 18.0	

Base Number (BN) mg KOH/g ASTM D2896 8.5

ASTM D445 14.4

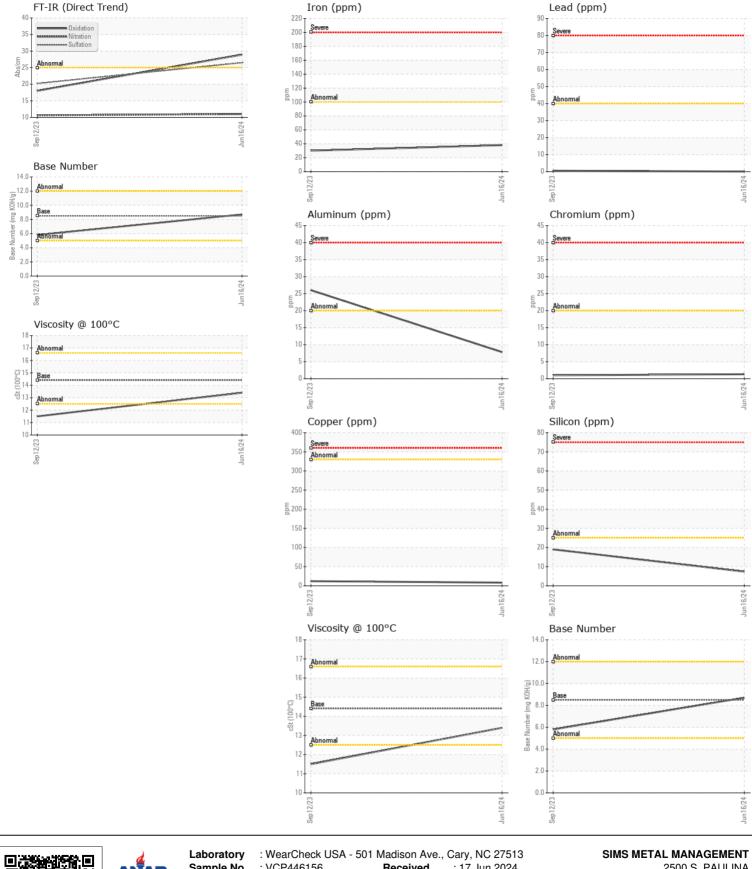
Visc @ 100°C cSt

5.8

11.5

8.7

13.4



Sample No. : VCP446156 Received 2500 S. PAULINA : 17 Jun 2024 Lab Number : 06211219 Tested CHICAGO, IL : 19 Jun 2024 Unique Number : 11084083 Diagnosed : 19 Jun 2024 - Sean Felton US 60608 Test Package : MOB 1 (Additional Tests: TBN) Contact: RYAN WISE Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ryan.wise@simsmm.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: