

Total Base Number (TBN) and Fuel Sulfur Levels for Cat 3600 Series and C280 Series Diesel Engines That Use Distillate Fuel or Biodiesel

This article provides information for Direct Injection (DI) Diesel Engines, Precombustion Chamber (PC) Engines and Direct Injection (DI) 3116 and 3126 Marine Diesel Engines.

The use of Cat S-O-S Services oil analysis is recommended for determining oil life.

TBN is also commonly referred to as Base Number (BN).

The minimum required Total Base Number (TBN) for oil depends on the fuel sulfur level. For commercial diesel engines that use distillate fuel, the following guidelines apply:

Table 6

TBN recommendations for 3600 and C280 Series Cat engines that use distillate fuel or biodiesel fuel		
Fuel Sulfur Level percent (ppm)	Cat Engine Oils ⁽¹⁾	TBN of Commercial Engine Oils
0.05 percent (500ppm)	Cat DEO-ULS Cat DEO	Min 7
>0.05-0.2 percent (>500- 2000 ppm) ⁽²⁾	Cat DEO Cat DEO-ULS	Min 10
Above 0.2 percent (above 2000ppm) ⁽³⁾	Cat DEO ⁽⁴⁾	Min 10

⁽¹⁾ Cat DEO-ULS applies to Cat DEO-ULS SAE 15W-40, SAE10W-30, Cat DEO-ULS 5W-30 SAE 5W-40, and Cat DEO Cold Weather SAE 0W-40. Cat DEO applies to Cat DEO SAE 10W-40 and SAE 10W-30.

⁽²⁾ Use of an oil analysis program to determine oil drain intervals is strongly recommended if fuel sulfur is between 0.05% (500 ppm) and 0.5% (5000 ppm).

⁽³⁾ Use of an oil analysis program to determine oil drain intervals is required if fuel sulfur is above 0.5% (5000 ppm).

⁽⁴⁾ For fuels of sulfur levels that exceed 1.0 percent (10,000 ppm), refer to TBN and engine oil guidelines given in this section.

⁽⁵⁾ Cat DEO-ULS may be used if an oil analysis program is followed. High fuel sulfur levels may reduce the oil drain intervals.

For regions in the world where fuels of high sulfur that exceed 1.0 percent (10,000 ppm (mg/kg)) are available and allowed for use by law, use the following guidelines:

- Choose multigrade oil with the highest TBN that meets one of these specifications: Cat ECF-1-a, Cat ECF-2, or Cat ECF-3.
- Reduce the oil change interval. Base the oil change interval on the oil analysis. Ensure that the oil analysis includes the condition of the oil and a wear metal analysis. Cat S-O-S Services oil analysis is required.

TBN testing is an optional part of the S-O-S Services oil analysis program. TBN testing may be done in addition to the standard S-O-S Services tests for oil deterioration. In most applications, the S-O-S Services tests for oxidation, sulfation, viscosity, and wear will identify oil deterioration.

TBN of the oil is typically measured using "ASTM D2896" and/or "ASTM D4739" test methods. Both methods can be used to measure the TBN of used oils. However, "ASTM D4739" is the preferred method for used oils.

- Consider changing the oil if the "ASTM D2896" test result reaches 4 TBN. Look for other signs of oil deterioration, or abnormal wear to verify the need to change oil.
- Consider changing the oil if the "ASTM D4739" test result reaches 3 TBN. Look for other signs of oil deterioration, or abnormal wear to verify the need to change oil.
- Be aware that both of these test methods have variability of approximately ± 1 TBN. Care should be taken when analyzing the results of the TBN test. Consult a trained S-O-S Services analyst when making oil drain decisions based on oil sample results.

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United States. War Department



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