

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	TBN of Commercial Engine Oils
0.05 percent (500ppm)	Cat® DEO-ULS Cat® DEO	Min 7
>0.05-0.2 percent (>500- 2000 ppm)	Cat® DEO Cat® DEO-ULS	Min 10
Above 0.2 percent (above 2000ppm)	Cat® DEO	Min 10

- ⓘ 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.
- ⓘ 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).
- ⓘ Use of an oil analysis program to determine oil drain intervals is required if fuel sulfur is above 0.5% (5000 ppm).
- ⓘ For fuels of sulfur levels that exceed 1.0 percent (10,000 ppm), refer to TBN and engine oil guidelines given in this section.
- ⓘ 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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SA Dillow



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, **Field Manuals** United States. War Department, 1944 **Eagle Mountain Landfill Project, Riverside County**
, 1992 Pounder's Marine Diesel Engines and Gas Turbines Doug Woodyard, 2009-08-18 Since its first appearance in 1950 Pounder's Marine Diesel Engines has served seagoing engineers students of the Certificates of Competency examinations and the marine engineering industry throughout the world Each new edition has noted the changes in engine design and the influence of new technology and economic needs on the marine diesel engine Now in its ninth edition Pounder's retains the directness of approach and attention to essential detail that characterized its predecessors There are new chapters on monitoring control and HiMSEN engines as well as information on developments in electronic controlled fuel injection It is fully updated to cover new legislation including that on emissions and provides details on enhancing overall efficiency and cutting CO2 emissions After experience as a seagoing engineer with the British India Steam Navigation Company Doug Woodyard held editorial positions with the Institution of Mechanical Engineers and the Institute of Marine Engineers He subsequently edited The Motor Ship journal for eight years before becoming a freelance editor specializing in shipping shipbuilding and marine engineering He is currently technical editor of Marine Propulsion and Auxiliary Machinery a contributing editor to Speed at Sea Shipping World and Shipbuilder and a technical press consultant to Rolls Royce Commercial Marine Helps engineers to understand the latest changes to marine diesel engines Careful organisation of the new edition enables readers to access the information they require Brand new chapters focus on monitoring control systems and HiMSEN engines Over 270 high quality clearly labelled illustrations and figures to aid understanding and help engineers quickly identify what they need to know **Colossal Caterpillar : The Ultimate Earthmover** Eric C. Orlemann, This awe inspiring collection covers the largest top of the line mining equipment in each of the manufacturer's five major classes haulers wheel loaders hydraulic shovels graders and bulldozers Design development and production histories are accompanied by the stories of these gargantuan machines in service as well as details of the Herculean efforts required for their assembly Incredible modern color photography from both the author and the Caterpillar archives provide shots of the equipment in action and production not to mention detail shots to help explain their working componentry *Shipbuilding & Marine Engineering International* , 1984 **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1977 Petroleum Refineries in the United States and Puerto Rico , 1966 **Ship & Boat International** , 2003
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