

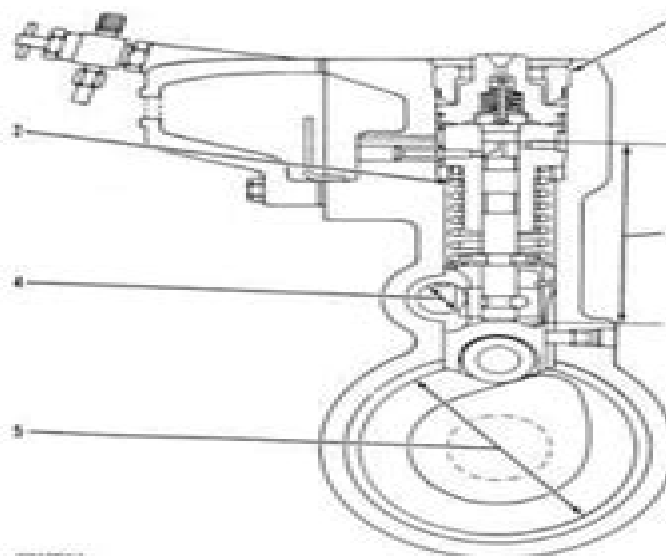
# FUEL INJECTION EQUIPMENT

Firing order (Injection sequence) ..... 1, 5, 3, 6, 2, 4  
Injection timing before TC (top-center):

Make reference to the ENGINE INFORMATION PLATE on the engine and/or the FUEL SETTING AND RELATED INFORMATION FICHE.

- (1) Torque for bushing .....  $165 \pm 14$  N·m ( $120 \pm 10$  lb. ft.)
- (2) 7N5067 Spring
  - Length under test force .....  $43.52$  mm ( $1.713$  in.)
  - Test force .....  $116.5 \pm 5.8$  N ( $26.2 \pm 1.3$  lb.)
  - Free length after test .....  $46.73$  mm ( $1.838$  in.)
  - Outside diameter .....  $25.9$  mm ( $1.02$  in.)
- (3) Length of pump plunger
  - (new) .....  $73.886 \pm 0.013$  mm ( $2.9089 \pm .0005$  in.)
  - Minimum permissible length (worn) .....  $73.873$  mm ( $2.9084$  in.)
- (4) Bore in the bearings for the rack:
  - Bearing at the rear .....  $12.746 \pm 0.045$  mm ( $.5018 \pm .0018$  in.)
  - Bearing at the front .....  $12.758 \pm 0.045$  mm ( $.5023 \pm .0018$  in.)
  - Diameter of fuel rack .....  $12.662 \pm 0.005$  mm ( $.4985 \pm .0002$  in.)
- (5) Bore in bearings for the camshaft:
  - Front .....  $55.090 \pm 0.038$  mm ( $2.1689 \pm .0015$  in.)
  - Rear .....  $68.339 \pm 0.038$  mm ( $2.6905 \pm .0015$  in.)
  - Camshaft bearing surface (journal diameter):
    - Front .....  $55.090 \pm 0.013$  mm ( $2.1654 \pm .0005$  in.)
    - Rear .....  $68.250 \pm 0.013$  mm ( $2.6870 \pm .0005$  in.)

Torque for the nuts that hold the fuel lines (use SP144 Fuel Line Socket) .....  $40 \pm 7$  N·m ( $30 \pm 5$  lb. ft.)



WP13001

# FUEL TRANSFER PUMP

- (1) Tighten plug to .....  $20 \pm 7$  N·m ( $14 \pm 5$  lb. ft.)
- (2) Tighten fitting to .....  $55 \pm 10$  N·m ( $40 \pm 7$  lb. ft.)



WP13742

NOTE: FOR TORQUE VALUES NOT GIVEN, SEE THE FIRST PAGE OF SPECIFICATIONS FOR GENERAL TIGHTENING TORQUES

# Caterpillar Engine 3306 Manual Engine Hours

**Daniela Niemeyer**



## **Caterpillar Engine 3306 Manual Engine Hours:**

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**Workplace** Carolyn R. Boiarsky,Margot Soven,1995      *CIM Bulletin* Canadian Institute of Mining and Metallurgy,Canadian  
Institute of Mining, Metallurgy and Petroleum,1985      **Ship & Boat International** ,1998      *The Work Boat* ,1986  
    *Chilton's CCJ.* ,1977      California Farmer ,1983      Consulting-specifying Engineer ,1999      **World Fishing** ,1975  
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1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Caterpillar Engine 3306 Manual Engine Hours
    - Chapter 2: Essential Elements of Caterpillar Engine 3306 Manual Engine Hours
    - Chapter 3: Caterpillar Engine 3306 Manual Engine Hours in Everyday Life
    - Chapter 4: Caterpillar Engine 3306 Manual Engine Hours in Specific Contexts
    - Chapter 5: Conclusion
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Caterpillar Engine 3306 Manual Engine Hours.

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