



# GLOBAL TECHNICAL BULLETIN

Ref No.: GTB2009016  
Date: September 16, 2009

**To: All Yanmar Marine Distributors**  
**Subject: Oil level change for SD50 series**

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Yanmar Marine International B.V wishes to inform you that the oil level of SD50 series has been changed in order to improve the balance between oil- and air-volume inside the drive. This will keep the pressure inside the drive within acceptable limits.

## 1. Back Ground

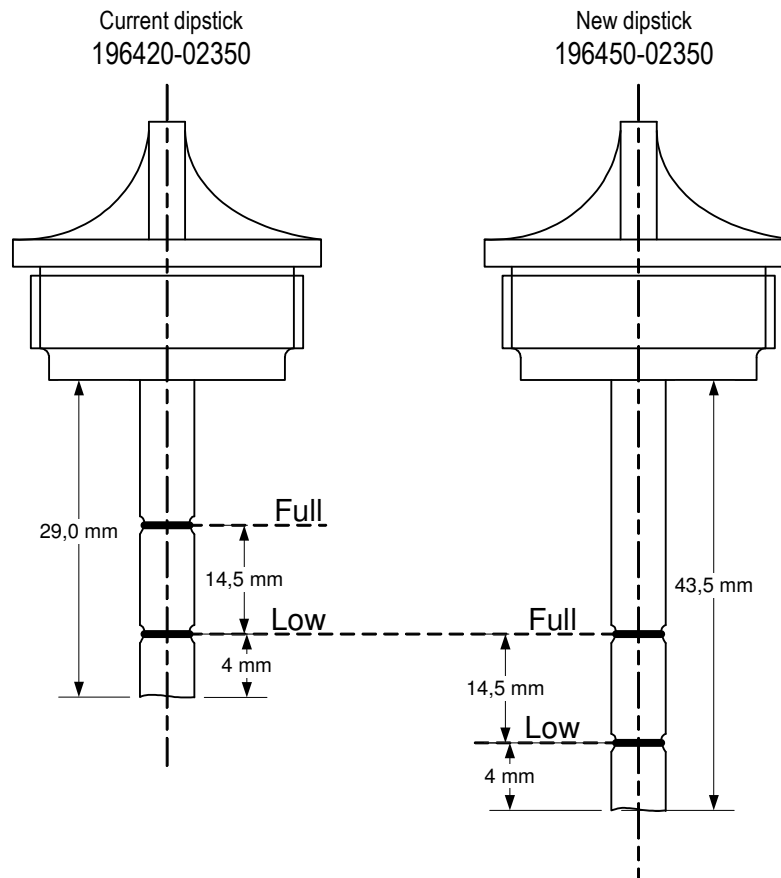
From our warranty-claim analysis, YMI has found some SD50 units with complaints regarding oil leakage at the input shaft, or where the oil was emulsified. YMI found that if our current oil-level is slightly exceeded, the inside pressure of the SD50 may exceed the proof leakage pressure for the oil seal. This can cause oil leakage at the input shaft during running, and it could suck water from the oil seal on the propeller shaft as well.

## 2. Improvement

In order to obtain a lower oil pressure inside the drive, the maximum oil level has been changed from full position to low position on the dipstick.

[The difference is 14.5 mm on the dipstick]

The part number of the dipstick of the SD50 series has been changed from 196420-02350 to 196450-02350





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### 3. ***Counter measure for field units***

- Please check the oil-level in the SD50 during regular maintenance.
- Correct the oil-level in the SD50 according to above specifications. If above newly recommended level; please remove oil to make the adjustment.
- If the oil-seal from the input-shaft or propeller-shaft is still leaking after correction of the oil-level, please replace the oil-seal.

**Remarks:** Dipstick is very short, so no possibility to put new low-level mark on current dipstick. Please use current low-level mark as new high-level mark for correct oil-level.

### 4. ***Applying SD50 serial number break***

New dipstick will be applied in production from October 2009.