



www.harscorail.com

RAIL

SERVICE BULLETIN

MAINTENANCE OF WAY EQUIPMENT

DATE: 8-15-2012 **BULLETIN NO:** 12-013

TITLE: CUMMINS QSC 8.3L ENGINE OIL DIPSTICK AND TUBE

RATING:

<input type="checkbox"/> DIRECTIVE (Action Is Required)	<input checked="" type="checkbox"/> ALERT (Potential Problem)
<input type="checkbox"/> INFORMATION (Action Is Optional)	<input type="checkbox"/> PRODUCT IMPROVEMENT (Enhance Product)

PRODUCT SERIES / MODEL: All Series and Models of Machines Equipped with Cummins QSC 8.3L Engines Assembled In January 2011 and Later

SERIAL NO: All serial numbers of machines equipped with Cummins QSC 8.3L engines assembled in January 2011 and later.

SUMMARY: The Cummins QSC 8.3 Liter engines assembled at the Cummins engine factory in January 2011 and later may have been assembled with the incorrect oil dipstick and tube. Harsco Rail recommends that all machines equipped with a Cummins QSC 8.3L engine assembled in January 2011 and later be checked for the correct engine oil dipstick and tube to ensure the proper oil operating level.

OPERATIONAL IMPACT: If the engine was assembled with the incorrect oil dipstick and tube, the engine may not have the correct operating oil level which could lead to serious engine damage.

ACTION: Follow the instructions in this Service Bulletin to check the engine for the correct oil dipstick and tube.

CONTACT: If you have any questions or if we can be of any service, please contact:

Harsco Rail Service Department
Columbia, SC Facility
(803) 822-7546

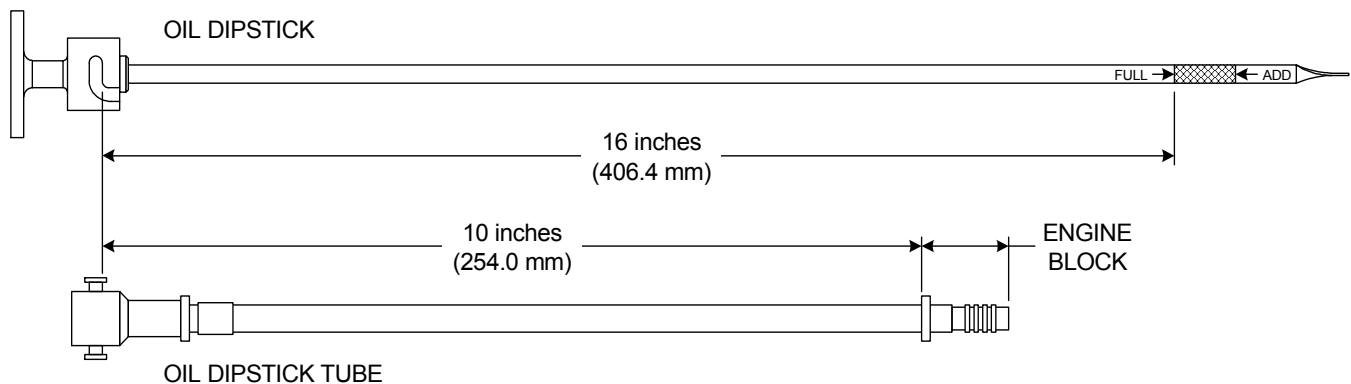
SAFETY INFORMATION

- **FOLLOW APPLICABLE RAILROAD LOCKOUT - TAGOUT PROCEDURE TO REMOVE MACHINE FROM ENERGY SOURCES. FAILURE TO COMPLY COULD RESULT IN SEVERE BODILY INJURY.**

CHECKING ENGINE OIL DIPSTICK AND TUBE - See Figure 1

1. Locate the oil dipstick on the side of the engine.
2. Pull the oil dipstick. Wipe the dipstick off and measure the oil dipstick from the FULL mark to the bottom of the locking slots on the handle. The oil dipstick **MUST** measure 16 inches (406.4 mm).
 - a. If the measured length is correct, go to Step 3.
 - b. If the measured length is not correct, the oil dipstick and tube **MUST BE REPLACED**. See Ordering Engine Oil Dipstick and Tube.
3. Measure the oil dipstick tube from the engine block to the bottom of the locking tabs. The oil dipstick tube **MUST** measure 10 inches (254.0 mm).
 - a. If the measured length is correct, the engine oil dipstick and tube are correct. No further action is required.
 - b. If the measured length is not correct, the oil dipstick and tube **MUST BE REPLACED**. See Ordering Engine Oil Dipstick and Tube.

FIGURE 1
CORRECT ENGINE OIL DIPSTICK AND TUBE LENGTH



ORDERING ENGINE OIL DIPSTICK AND TUBE

1. To order the new engine oil dipstick and tube, contact the Service Department at Harsco Rail to order the total quantity of Service Kits needed.

Harsco Rail Service Department
Columbia, SC Facility
(803) 822-7546

2. Be able to provide the Model Number and Serial Number of both the machine and engine that the oil dipstick and tube is being replaced on.
3. The Service Kit includes a new oil dipstick, tube, sealing compound and installation instructions.

INSTALLING ENGINE OIL DIPSTICK AND TUBE

1. Follow the instructions supplied in the Service Kit or in this Service Bulletin to install the new oil dipstick and tube. BE SURE to apply a thin bead of the supplied sealing compound on the knurled end of the tube that installs in the engine block.
2. After installing the new oil dipstick and tube Service Kit, CHECK the engine oil level. If low, ADD oil to the proper operating level using a grade of oil recommended by the engine manufacturer.
3. Start the engine and check the new oil dipstick tube for leaks.

© 2012 HARSCO CORPORATION, ALL RIGHTS RESERVED

415 North Main Street
Fairmont, MN
56031-1837
Tel: (507) 235-3361
Fax: (507) 235-7370

2401 Edmund Road, Box 20
Cayce-West Columbia, SC
29171-0020
Tel: (803) 822-9160
Fax: (803) 822-7471

200 South Jackson Road
Ludington, MI
49431
Tel: (231) 843-3431
Fax: (231) 843-1644

Printed In U.S.A.



007-011 Lubricating Oil Dipstick Tube

Preparatory Steps

- Clean the area around the dipstick tube before removal to prevent debris from entering the oil system.



©Cummins Inc



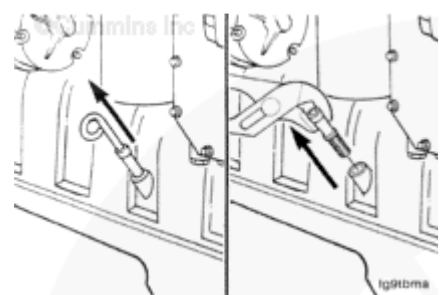
ch800wa

Remove

Remove the dipstick from the dipstick tube.

Remove the dipstick tube from the cylinder block.

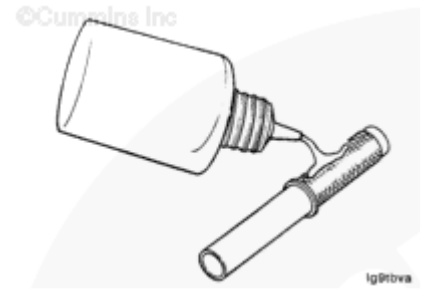
Service Tip: Use a dent puller and a M8 x 1.25 x 21-mm self-tapping capscrew. Thread the capscrew into the dipstick tube and remove the tube.



lg9tbma

Install

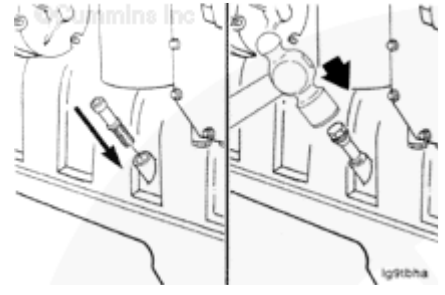
Apply a thin bead of sleeve retaining compound, Part Number 3823718 or equivalent, around the bottom of the knurled end of the tube.



Place the knurled end of the tube into the dipstick tube bore in the cylinder block.

Use a flat washer and hex head capscrew to drive the tube into the cylinder block.

Lightly drive the dipstick tube until it seats against the block casting.



Install the dipstick into the dipstick tube.



Finishing Steps

- Operate the engine and check for leaks.



©Cummins Inc

Last Modified: 14-Oct-2009
