

Circulate to:     Sales Manager     Accounting     Service Manager     Technician     Parts Manager

## Official Recall Notification United States Federal Boat Safety Act —Mercury Diesel 3.0L Tier III Turbocharger Oil Supply Line Update

### Models Affected

Models Covered	Serial Number
Mercury Diesel 3.0L TDI Tier III engines	All

### Scope

Worldwide

### Situation

Mercury Diesel has identified a situation whereby the oil supply line to the turbocharger could loosen. This issue may affect all engines, regardless of engine run-time or service history. Loosening of the oil supply line can allow engine oil to leak onto hot engine components and can cause an odor, smoke, and possibly a fire.

### Inspection

Engines reworked by the factory or by an authorized dealer will have a mark indicating that the rework has been performed. With the engine removed from the shipping container, or installed in a boat the rework identification will be a green dot placed to the left of the serial number decal.



57251

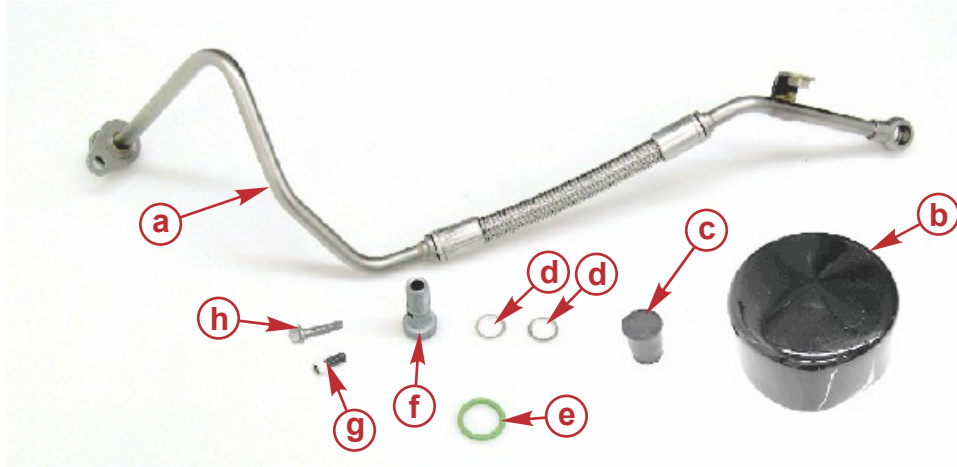
**Green dot showing that rework has been performed**

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

## Solution

1. Order 8M0100488.



57371

8M0100488 Oil line kit

Ref.	Qty.	Description
a	1	Replacement oil line
b	1	Oil filter canister protective cover
c	1	Oil line port protective plug
d	2	Seals
e	1	O-ring
f	1	Banjo bolt
g	1	Oil line flange retention screw
h	1	Screw for antirotation bracket
NS	1	Oil filter

### NOTICE

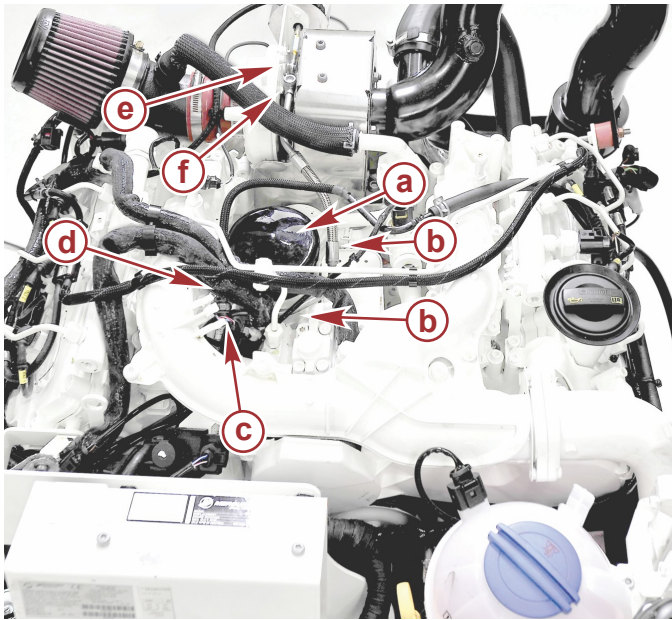
Disconnecting or connecting the battery cables in the incorrect order can cause injury from electrical shock or can damage the electrical system. Always disconnect the negative (-) battery cable first and connect it last.

2. Disconnect the engine's starting battery.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

3. Remove the engine cover.

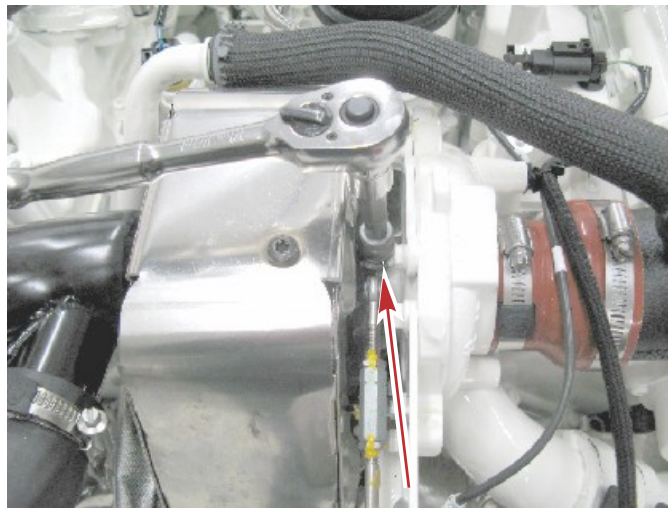


57351

**Component locations**

- a - Oil filter, shown capped (refer to following steps)
- b - Turbocharger oil line
- c - Fuel metering valve connector
- d - Oil line retainer flange and retaining screw (not visible, but located beneath fuel lines)
- e - Turbocharger oil line banjo bolt
- f - Antirotation screw

4. Remove the banjo bolt securing the oil supply line to the turbocharger.



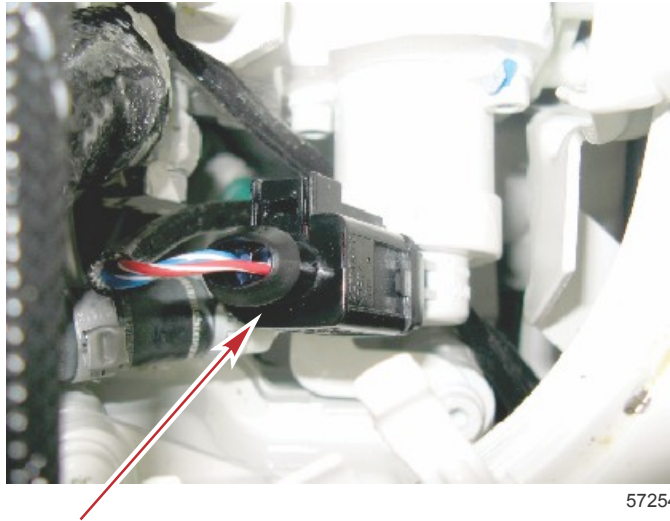
57252

**Banjo bolt being removed**

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

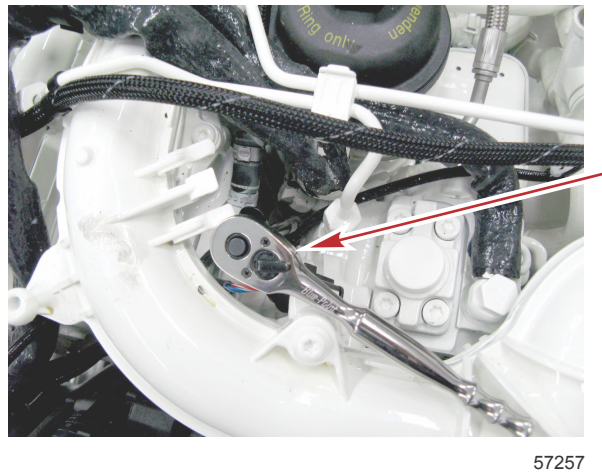
This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

5. Disconnect the fuel metering valve connector, and secure the connector out of the way.



**Fuel metering valve connector**

6. Remove the T30 screw, which secures the oil supply line retaining flange to the cylinder block.



**Remove the T30 screw from the oil supply line retaining flange**

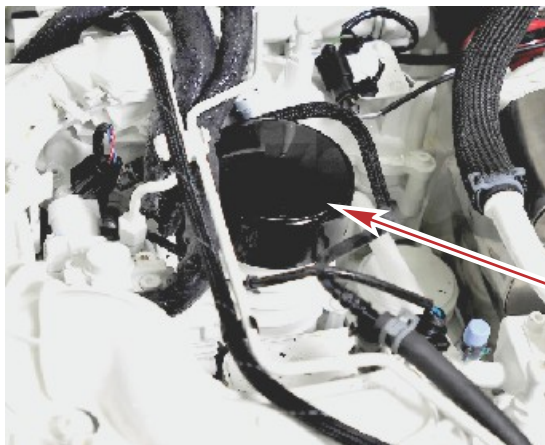
7. Remove the engine oil filter.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.



8. Cap the engine oil filter canister with the cap supplied in the kit.



57259

**Oil filter canister capped**

9. Remove the fuel line and return fuel line from the fuel line retainer, and spread the lines apart.



57260

**Remove the fuel lines from the retainer**



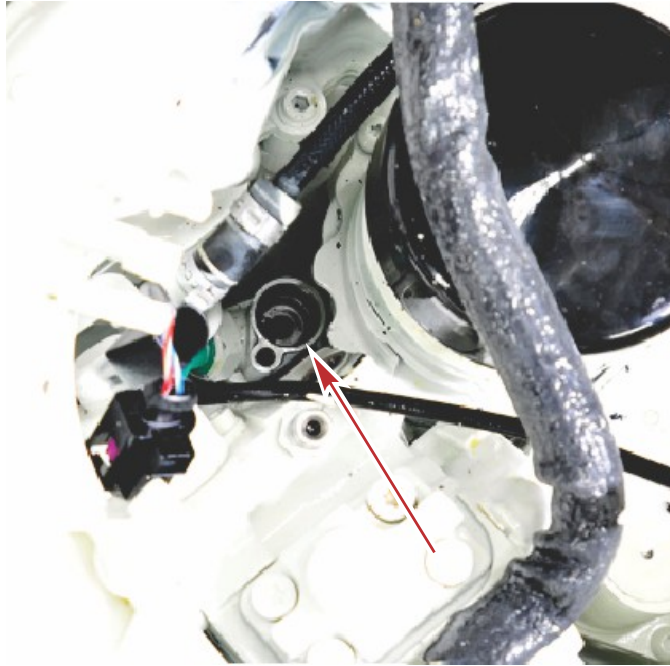
57350

**Spread the fuel lines apart to gain access to the oil supply line**

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

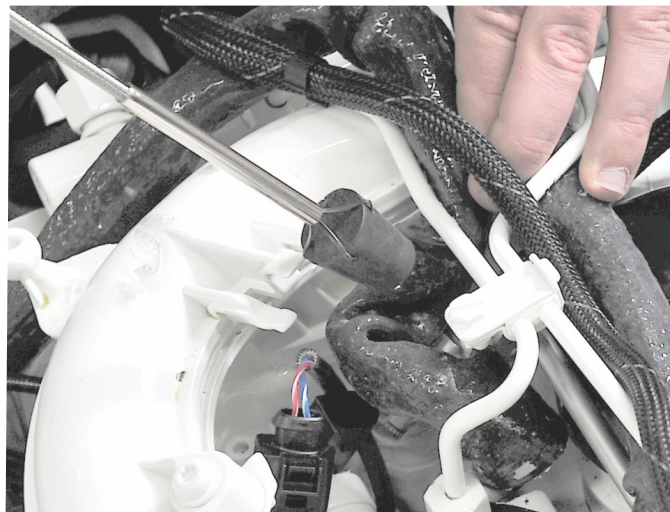
This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

10. Remove the turbocharger oil supply line from the cylinder block.
  - a. To protect the engine from contamination by dirt or paint particles when installing the new line, a plug is included in the kit to close off the port. Using a flexible claw pickup tool, insert the supplied plug into the oil line port, as shown as soon as the oil line has been moved sufficiently out of the way.



57365

**Oil line port with components removed for clarity**



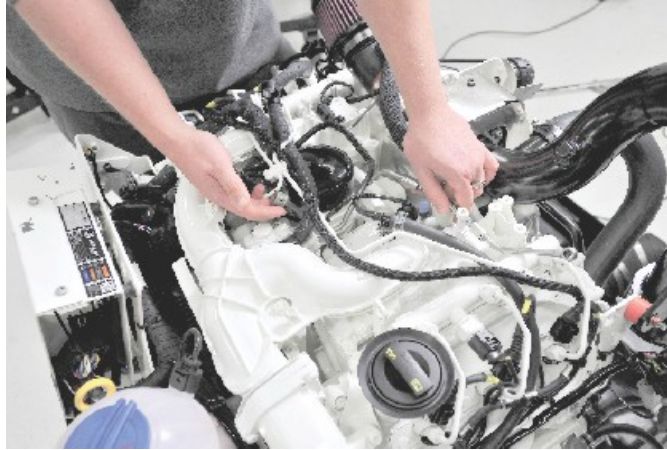
57364

**Plug being lowered**

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

- b. As you are picking the line straight up, begin to rotate the line at the top of the oil supply line towards the middle of the engine.



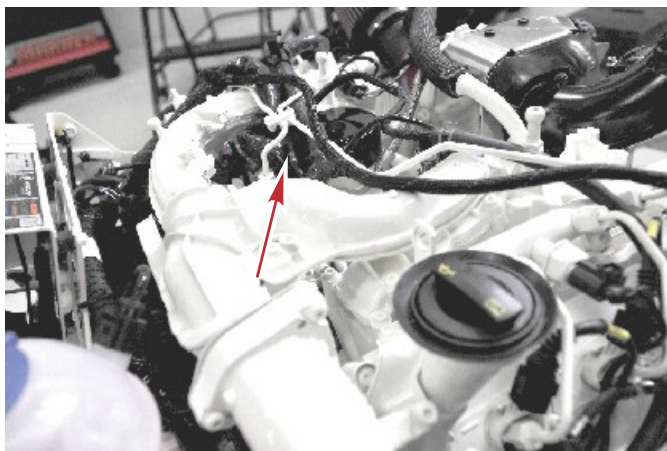
57361

- c. This rotation and lifting will place the flange of the oil supply line even with the top of the oil filter canister and the main fuel supply line. Some manipulation of the fuel supply line may be needed during this step.



57362

11. Remove the oil supply line from the engine by maneuvering the flange of the oil supply line between the oil filter canister, injection pump, and fuel supply lines.



57363

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.



12. Assemble the new oil supply O-ring onto the new oil supply line. Do not apply oil to the O-ring. Doing so may introduce contaminants.

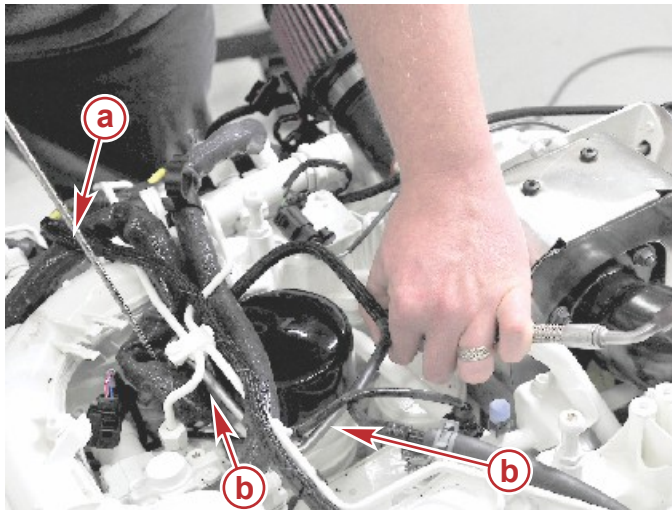


57264

O-ring installed on oil line

13. Reinstall the oil supply line onto the engine. As with removal of the old line, it may be necessary to rotate the line during installation. Install the oil supply line from the engine by maneuvering the flange of the oil supply line between the oil filter canister, injection pump, and fuel supply lines.

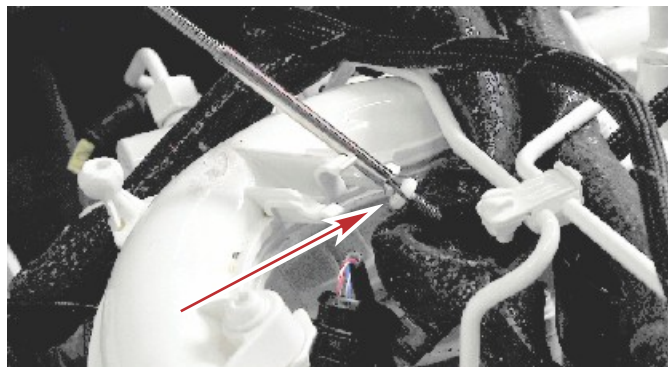
**IMPORTANT: Do not remove the oil port plug until it is necessary to attach the oil line. Contaminants may have been loosened while maneuvering the oil line.**



- a - Mechanical fingers maintaining position of port plug while the oil line is being maneuvered
- b - Turbocharger oil line being installed

57366

14. Using the mechanical fingers, secure the oil line flange to the engine with the retained screw. Hand-tighten the screw.



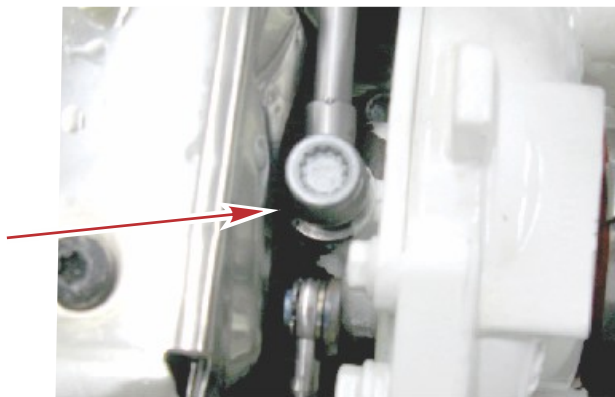
57369

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.



15. Install a new banjo bolt with washers, and hand-tighten it.



57265

16. Install the M6 antirotation fastener, and hand-tighten it.



57372

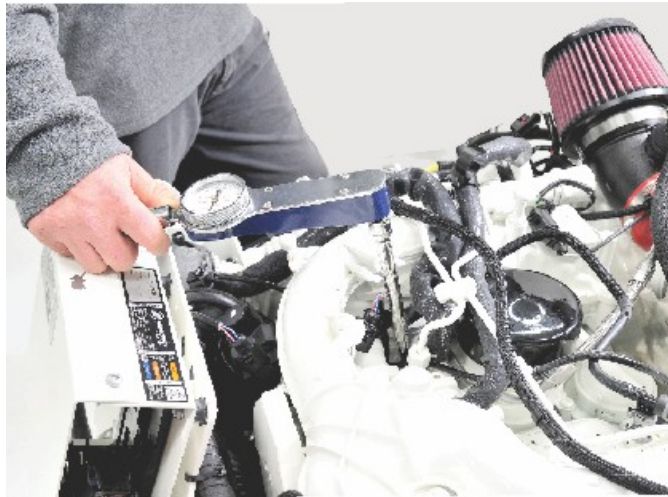
**Antirotation screw**

17. Tighten the screw to secure the oil supply line flange to the cylinder block to the specified torque.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

Description	Nm	lb-in.	lb-ft
Screw to secure oil supply line flange	10	88.5	–



57370

18. Tighten the banjo bolt to the specified torque.

Description	Nm	lb-in.	lb-ft
Banjo bolt	20	177	–



57269

19. Tighten the M6 antirotation fastener to the specified torque.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

Description	Nm	lb-in.	lb-ft
M6 antirotation fastener	10	88.5	–



57367

20. Reconnect the fuel line retainer.



57270

21. Install a new engine oil filter, and tighten the cap to the specified torque.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.

Description	Nm	lb-in.	lb-ft
Engine oil filter cap	35	–	26



57271

22. Reconnect the fuel metering valve connector.
23. Drain the engine oil, and refill the sump with specified engine oil.

**⚠ CAUTION**

Disconnecting or connecting the battery cables in the incorrect order can cause injury from electrical shock or can damage the electrical system. Always disconnect the negative (-) battery cable first and connect it last.

24. Reconnect the battery. Refer to your service guide for the proper procedure.
25. Test run to check for engine oil leaks.
26. Mark the engine with a green paint dot to indicate that the new oil line has been installed.
27. Reinstall the engine cover.

## Owner Notification

A letter will be sent to every registered owner of an affected product. The letter will advise the owner to contact any Mercury Diesel dealer for the repair. As a selling or servicing dealer, you should also contact your customers to make them aware of this recall and to schedule an appointment for this repair. A copy of the letter is included with this service bulletin for your reference.

## Parts Required

Qty.	Description	Part Number
1	Oil line kit	8M0100488

## Warranty

**United States and Canada:** Mercury Marine will credit the dealer for the cost of parts and labor. Submit a warranty claim through your normal warranty-processing channel, listing:

- Engine serial number
- Labor: 1.5 hour
- Warranty flat rate code: SB10 and SB05
- Qty. 1, Oil line kit - P/N 8M0100488
- Part code: 361
- Fail code: 00

**Outside the United States and Canada:** Follow instructions issued by your local office or by your distributor.

THE INFORMATION IN THIS DOCUMENT IS CONFIDENTIAL AND PROTECTED BY COPYRIGHT AND IS THE PROPERTY OF MERCURY MARINE.

This document is provided for the sole and exclusive use of the original recipient as prescribed by Mercury Marine and may not be distributed or copied, digitally or otherwise, without the prior written consent of Mercury Marine.





## **Official Notification of Federal Boat Safety Act Recall**

Dear Customer,

Thank you for the purchase of your Mercury Diesel power package. Mercury Diesel is dedicated to providing superior product reliability and customer satisfaction. As part of our commitment to superior customer satisfaction we have determined that your power package must be recalled under the **Federal Boat Safety Act** so an update can be performed.

### **What is the condition?**

Your power package must have the turbocharger oil supply line updated. A loose connection on the oil supply line to the turbocharger may allow engine oil to come in contact with hot engine components. This may cause an odor, smoke, and possibly a fire.

### **What will Mercury Marine do?**

We have provided instructions to our dealers on the upgrade to be performed to these engines. This update will be performed at no charge to you.

### **What should you do?**

Contact your Mercury Diesel dealer to arrange a service appointment. When scheduling your service appointment, mention Mercury Diesel Service Bulletin 2014-68.

**Please present this notice to your Mercury Diesel dealer when you bring your vessel in for servicing.**

### **What if you have other questions or if you no longer own this engine?**

Please contact your Mercury Diesel dealer or call Mercury Diesel Customer Service at 920-929-5040 between 7:30 am and 5:30 pm CST.

We have sent this notice in the interest of your continued satisfaction with our product, and we sincerely regret any inconvenience this may cause you.

Thank you for boating with Mercury Marine.

Mercury Marine Service