



Service Repair Manual

Models

**D44B ARTICULATED
DUMP TRUCK**

[Previous Screen](#)

Product: ARTICULATED TRUCK

Model: D44B ARTICULATED TRUCK 8SD

Configuration: D44B ARTICULATED DUMP TRUCK 8SD00001-UP (MACHINE) POWERED BY 3408 ENGINE

Disassembly and Assembly 3408 & 3408B INDUSTRIAL AND MARINE ENGINES

Media Number -SEN7382-02

Publication Date -01/12/1985

Date Updated -05/01/2016

SEN73820004

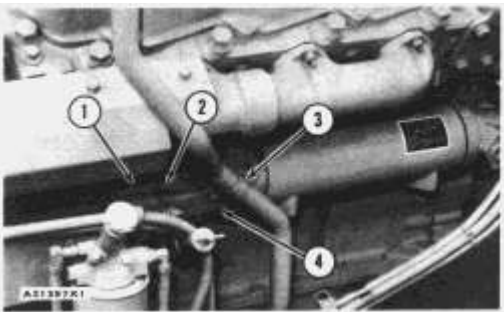
Engine Oil Cooler (Industrial Engine)

SMCS - 1378-011; 1378-012

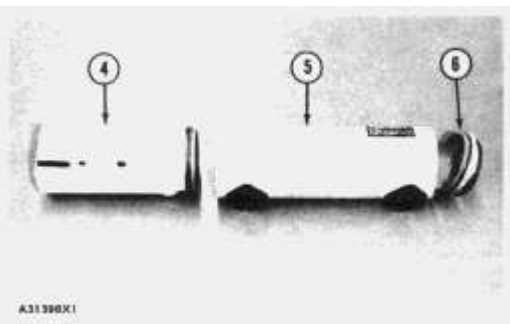
Remove Engine Oil Cooler (Industrial Engine)

START BY:

- a. remove oil filter base

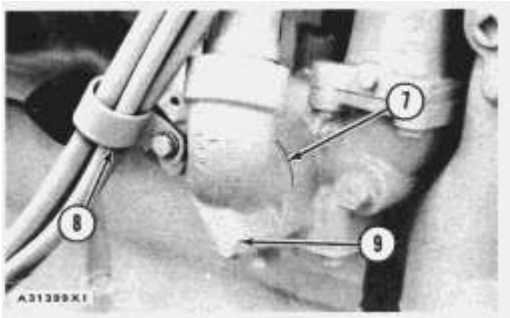


1. Remove breather tube (3). Remove bracket (1) that holds the oil level gauge.
2. Remove bolts (2) that hold bonnet (4) to the engine block.
3. Remove oil cooler and bonnet (4) as a unit.

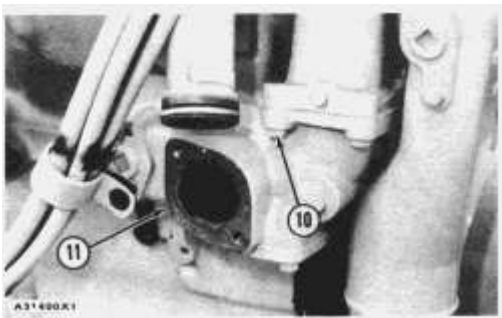


4. Remove bonnet (4) and adapter (6) from oil cooler (5). Remove the O-ring seals from bonnet (4) and adapter (6).

5. Clean the tube bundles in the engine oil cooler with a 3.18 mm (.125 in.) diameter rod.

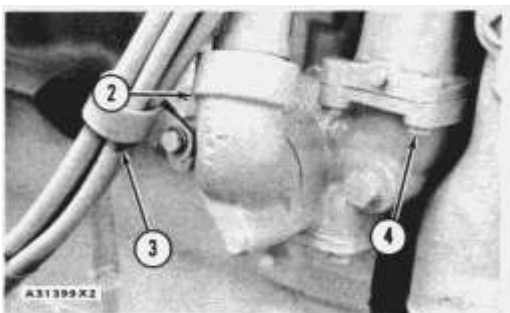
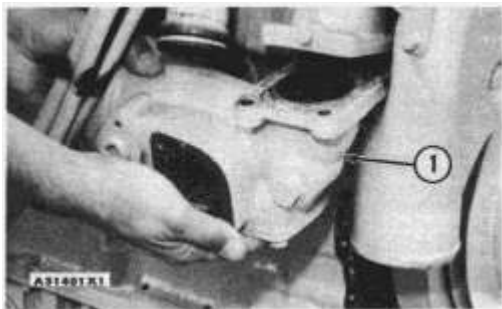


6. Remove bolts (9). Remove clamp (8) and elbow (7).



7. Remove four bolts (10). Remove bonnet (11).

Install Oil Cooler (Industrial Engine)



1. Put bonnet (1) in position. Install bolts (4).

2. Install elbow (2) and clamp (3).

<https://www.ebooklibonline.com>

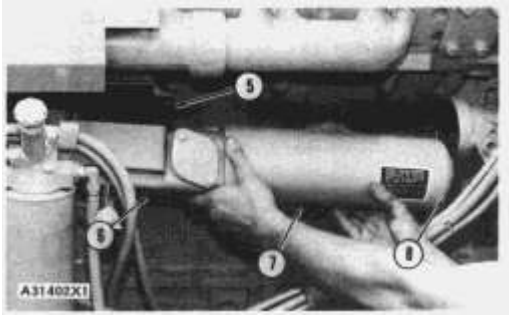
Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

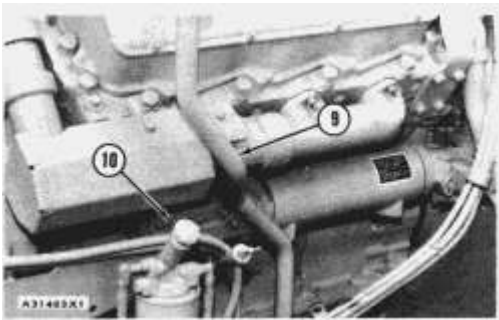
<https://www.ebooklibonline.com>



3. Put clean engine oil or glycerine on the O-ring seals for the adapter. Install the O-ring seals on the adapter.

4. Install adapter (8) and bonnet (6) on oil cooler (7).

5. Put the oil cooler into position. Install the spacer and gasket between bonnet (6) and cylinder block (5). Install the bolts that hold bonnet (6) to the cylinder block.



6. Install bracket (10) that holds the oil level gauge.

7. Install breather tube (9).

END BY:

a. install oil filter base

[Previous Screen](#)

Product: ARTICULATED TRUCK

Model: D44B ARTICULATED TRUCK 8SD

Configuration: D44B ARTICULATED DUMP TRUCK 8SD00001-UP (MACHINE) POWERED BY 3408 ENGINE

Disassembly and Assembly 3408 & 3408B INDUSTRIAL AND MARINE ENGINES

Media Number -SEN7382-02

Publication Date -01/12/1985

Date Updated -05/01/2016

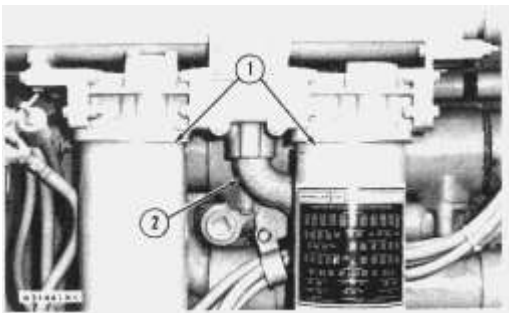
SENR73820005

Oil Filter Base (Marine Engine)

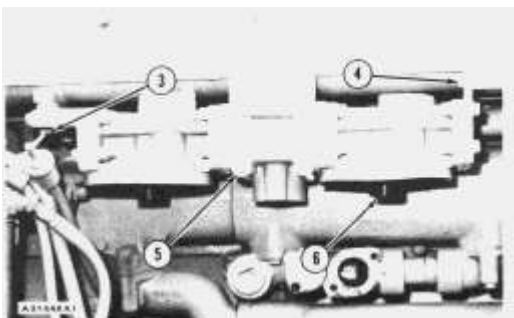
SMCS - 1306-011; 1306-012

Remove Oil Filter Base (Marine Engine)

Tools Needed		A
2P8250	Filter Strap Wrench	1



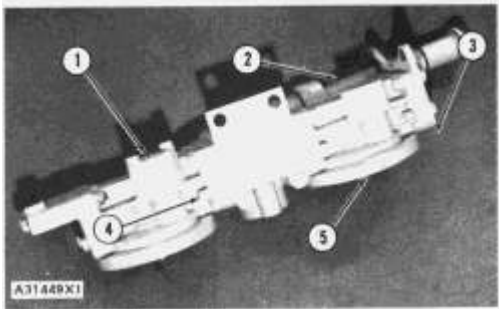
1. Remove oil filters (1) with tool (A).
2. Remove elbow (2).



3. Remove bolts (3) and bolts (4). Remove filter base (5).

4. Separate the filter bases. Remove the bypass valve if necessary. Remove studs (6).

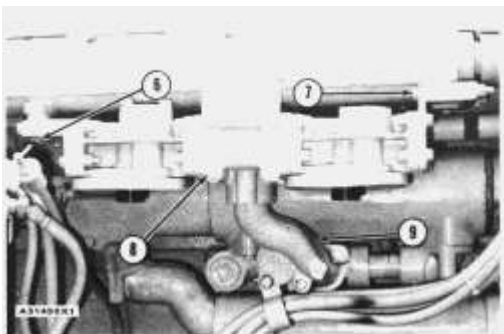
Install Oil Filter Base (Marine Engine)



1. Assemble the oil filter bases as shown. If studs (4) were removed, install them in the correct locations, and tighten them to a torque of 25 ± 4 N·m (18 ± 3 lb.ft.). Install the bypass valve in location (1).

2. Put 9S3263 Thread Lock on the last 10.2 mm (.40 in.) of threads on studs (5). Tighten the studs to a torque of 80 ± 14 N·m (60 ± 10 lb.ft.).

3. Put clean engine oil or glycerine on O-ring seals (3). Install seals (3) on tube (2). Install tube (2) on the filter base.



4. Put filter base (8) in position on the engine. Install bolts (6) and bolts (7).

5. Install elbow (9).

6. Install two new oil filters according to the instructions on the filters.

7. Check the engine oil for the correct level.

[Previous Screen](#)

Product: ARTICULATED TRUCK

Model: D44B ARTICULATED TRUCK 8SD

Configuration: D44B ARTICULATED DUMP TRUCK 8SD00001-UP (MACHINE) POWERED BY 3408 ENGINE

Disassembly and Assembly 3408 & 3408B INDUSTRIAL AND MARINE ENGINES

Media Number -SEN7382-02

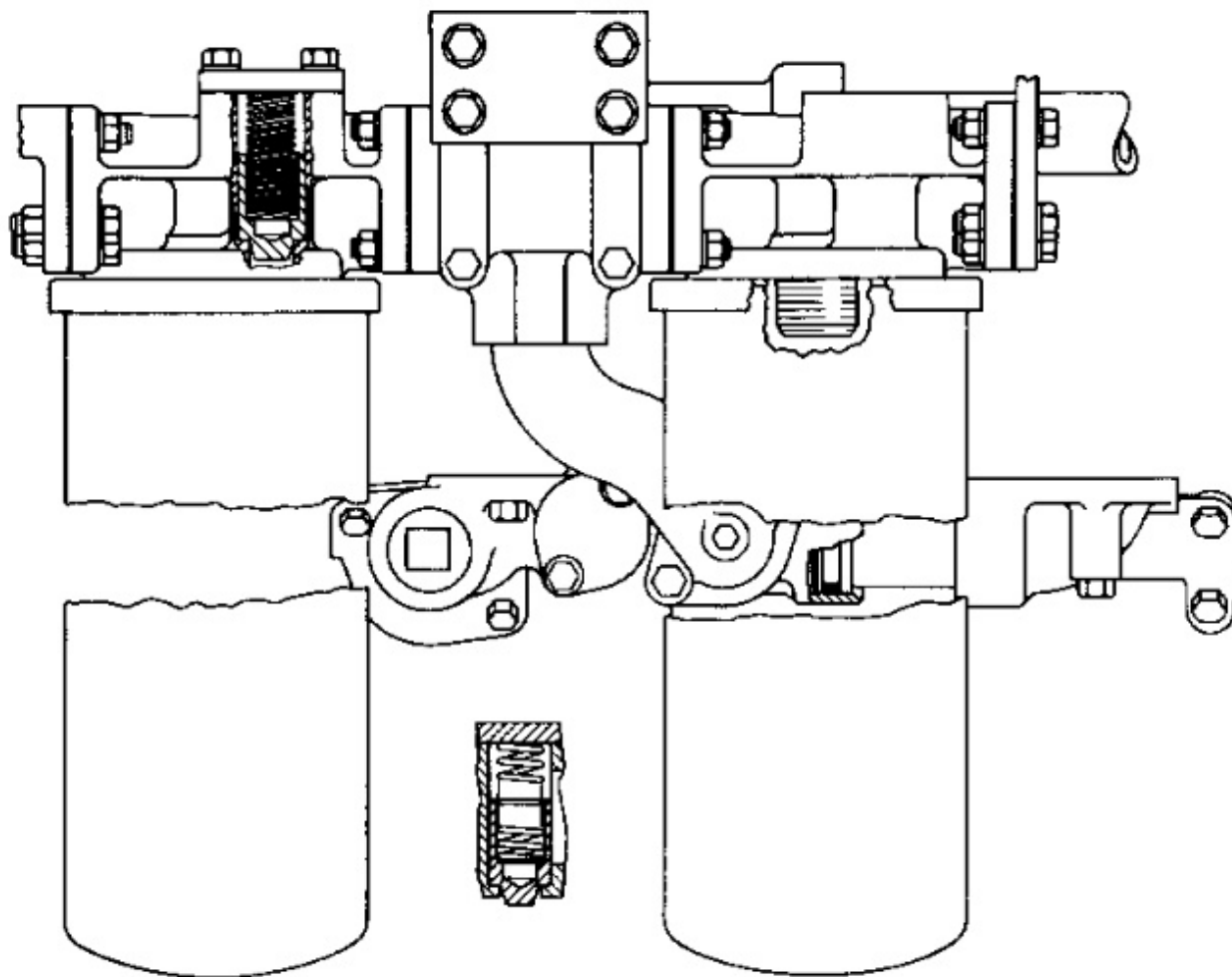
Publication Date -01/12/1985

Date Updated -05/01/2016

SEN73820006

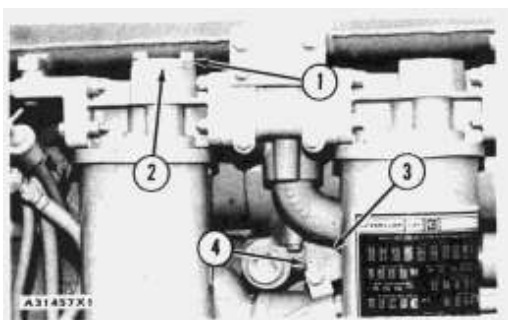
Oil Bypass Valves (Marine Engine)

SMCS - 1314-011; 1314-012



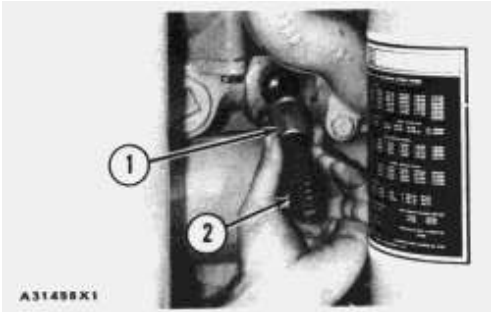
A22465X2

Remove Oil Bypass Valves (Marine Engine)

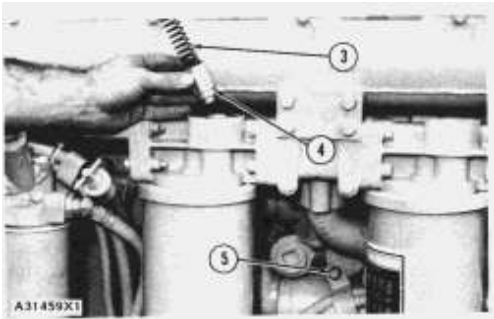


1. Remove cover (1). Remove the filter bypass valve from location (2).
2. Remove cover (3). Remove the cooler bypass valve from location (4).

Install Oil Bypass Valves (Marine Engine)



1. Install plunger (1) and spring (2) for the cooler bypass valve. Install the cover, bolt and clamp (5).



2. Install plunger (4) and spring (3) for the filter bypass valve. Install the cover for the filter bypass valve.

[Previous Screen](#)

Product: ARTICULATED TRUCK

Model: D44B ARTICULATED TRUCK 8SD

Configuration: D44B ARTICULATED DUMP TRUCK 8SD00001-UP (MACHINE) POWERED BY 3408 ENGINE

Disassembly and Assembly 3408 & 3408B INDUSTRIAL AND MARINE ENGINES

Media Number -SEN7382-02

Publication Date -01/12/1985

Date Updated -05/01/2016

SEN73820007

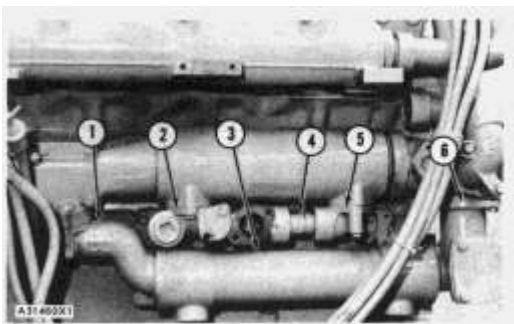
Engine Oil Cooler And Cooler Lines (Marine Engine)

SMCS - 1378; 1380-012; 1380-011

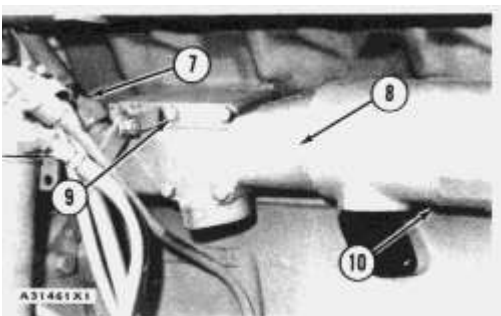
Remove Engine Oil Coolers And Cooler Lines (Marine Engine)

START BY:

- a. remove oil filter base (marine engine)

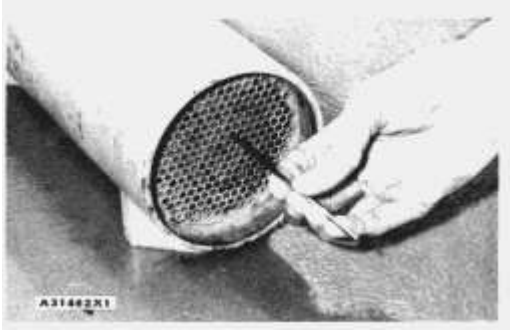


1. Remove the bolts from elbows (1) and (6). Remove elbow (1), cooler (3) and elbow (6).
2. Remove the bolts from body (2) and elbow (5). Remove body (2), tube (4) and elbow (5).



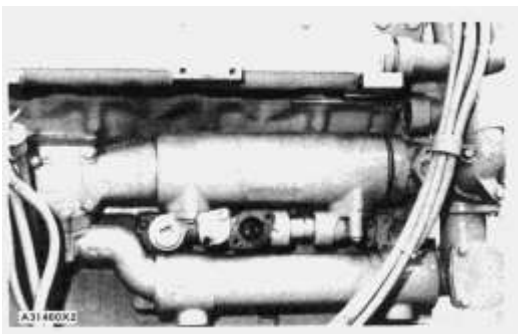
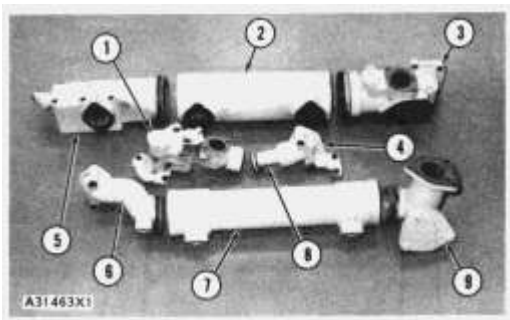
3. Disconnect line (7). Remove bolts (9) from bonnet (8).

4. Remove the bolts from the elbow on the front end of cooler (10). Remove the elbow, cooler (10) and bonnet (8).



5. Clean the tube bundles for both the engine oil cooler and marine cooler with a 3.18 mm (.125 in.) diameter rod as shown.

Install Engine Oil Coolers And Cooler Lines (Marine Engine)



1. Put clean engine oil or glycerine on the O-ring seals for bonnet (5), elbow (3), tube (8), elbow (6), elbow (9) and on the bores of cooler (2), body (1), elbow (4) and cooler (7).
2. Install bonnet (5), cooler (2) and elbow (3) on the side of the engine block. Connect the water line to bonnet (5).
3. Install body (1), tube (8) and elbow (4) below the engine oil cooler.
4. Install marine cooler (7), elbow (6) and elbow (9).

END BY:

- a. install oil filter base (marine engine)
-

Previous Screen

Product: ARTICULATED TRUCK

Model: D44B ARTICULATED TRUCK 8SD

Configuration: D44B ARTICULATED DUMP TRUCK 8SD00001-UP (MACHINE) POWERED BY 3408 ENGINE

**Disassembly and Assembly
3408 & 3408B INDUSTRIAL AND MARINE ENGINES**

Media Number -SEN7382-02

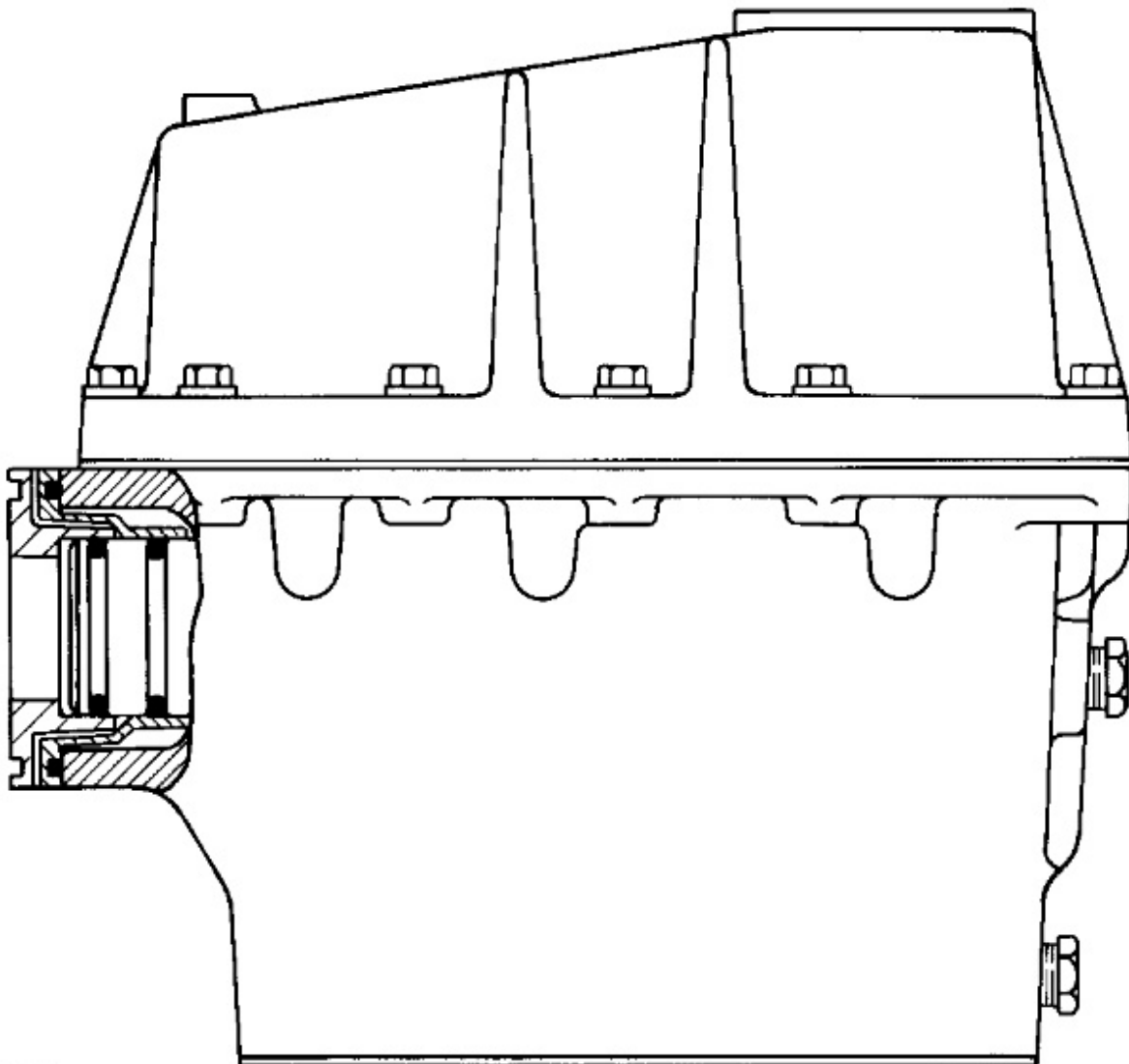
Publication Date -01/12/1985

Date Updated -05/01/2016

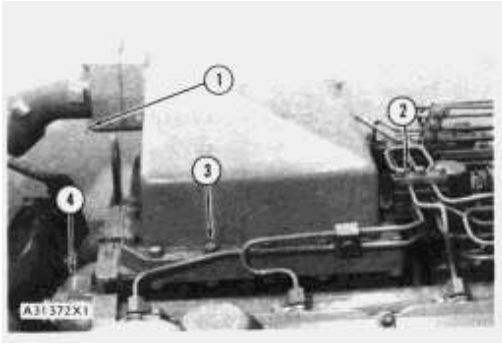
SEN73820008

Aftercooler

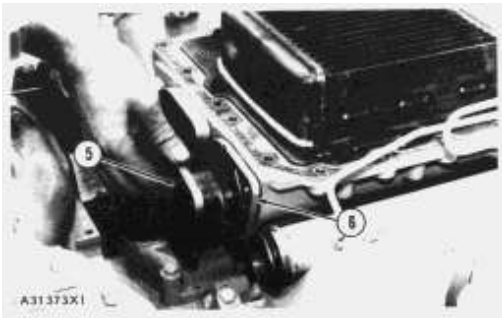
SMCS - 1063-011; 1063-012



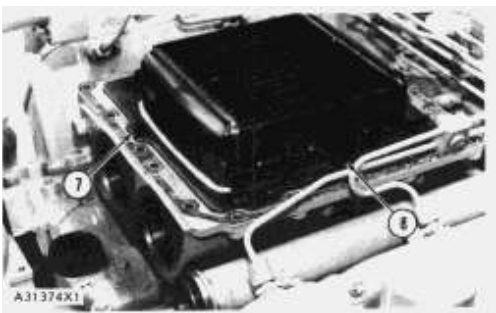
Remove Aftercooler



1. Drain the coolant from the aftercooler core and elbows (4).
2. Remove dampers (2) that hold the fuel injection lines.
3. Remove four bolts (1).
4. Remove bolts (3) from the aftercooler cover. Remove the aftercooler cover.
5. Remove two elbows (4) and the sleeve.

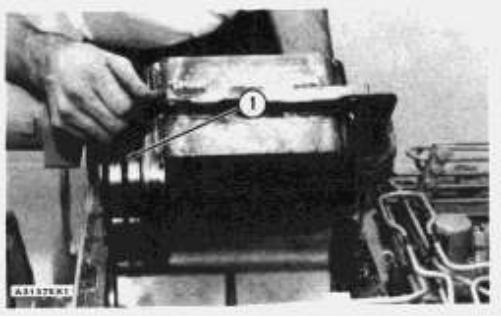


6. Remove adapters (5) and adapters (6) from the aftercooler housing.



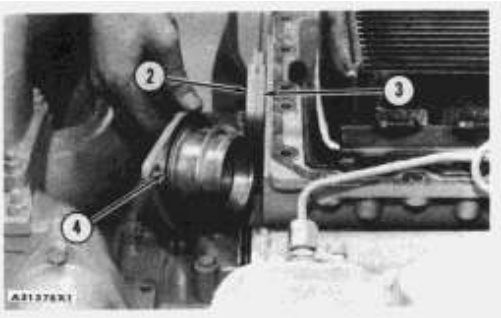
7. Remove bolts (7). Remove aftercooler core (8).

Install Aftercooler

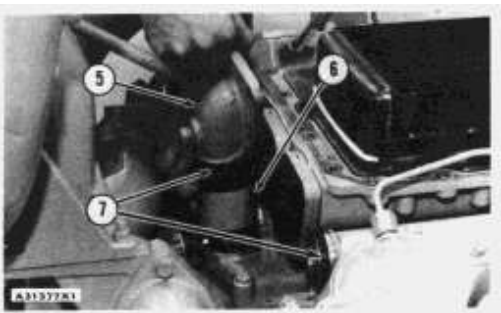


1. Put clean engine oil or glycerine on O-ring seals (1).

2. Put the aftercooler core in position on the aftercooler housing. Install the bolts that hold the core to the aftercooler housing.

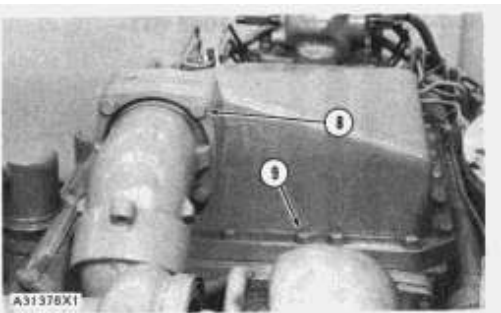


3. Put clean engine oil or glycerine on O-ring seals (4). Install adapters (3) and adapters (2) in the aftercooler housing.

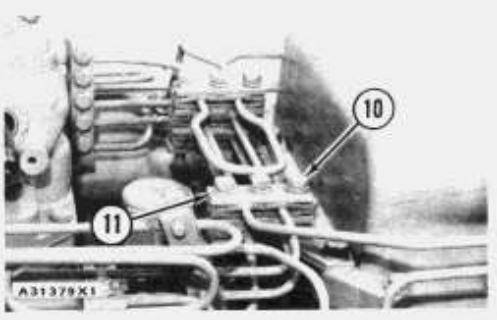


4. Put clean engine oil or glycerine on O-ring seals (7). Install sleeve (6).

5. Install elbows (5).



6. Put the aftercooler cover in position on the aftercooler housing. Install bolts (8) and bolts (9).



7. Install dampers (11) for the fuel injection lines. Tighten bolts (10) to a torque of $9.6 \pm 2.8 \text{ N}\cdot\text{m}$ ($84 \pm 24 \text{ lb}\cdot\text{in.}$).

8. Fill the cooling system to the correct level. See the Maintenance Guide.

[Copyright 1993 - 2020 Caterpillar Inc.](#)

Wed Feb 19 13:31:53 UTC+0800 2020

[All Rights Reserved.](#)

[Private Network For SIS Licensees.](#)

[Previous Screen](#)

Product: ARTICULATED TRUCK

Model: D44B ARTICULATED TRUCK 8SD

Configuration: D44B ARTICULATED DUMP TRUCK 8SD00001-UP (MACHINE) POWERED BY 3408 ENGINE

Disassembly and Assembly 3408 & 3408B INDUSTRIAL AND MARINE ENGINES

Media Number -SEN7382-02

Publication Date -01/12/1985

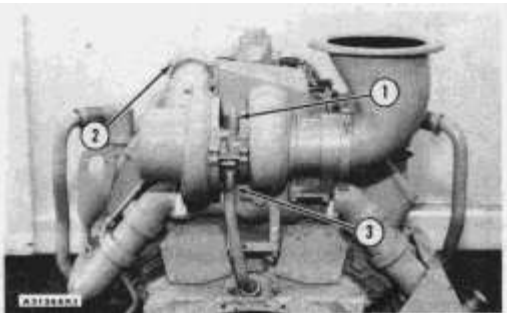
Date Updated -05/01/2016

SEN73820009

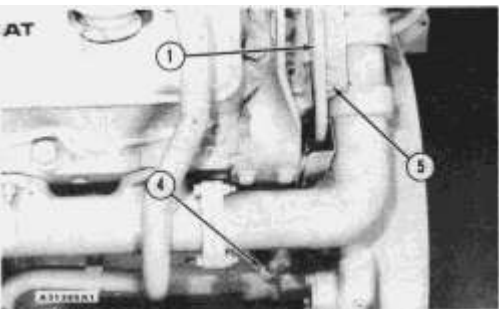
Turbocharger (Industrial Engine)

SMCS - 1052-011; 1052-012

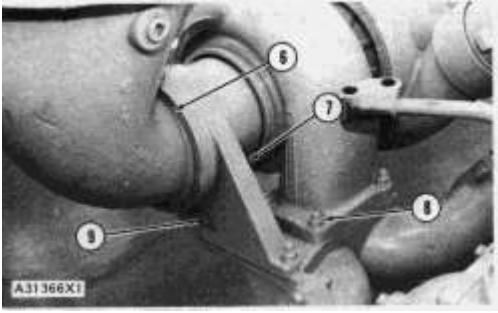
Remove Turbocharger (Industrial Engine)



1. Disconnect oil supply line (1) and drain line (3) from the turbocharger.
2. Remove four bolts (2) at the inlet of the aftercooler.

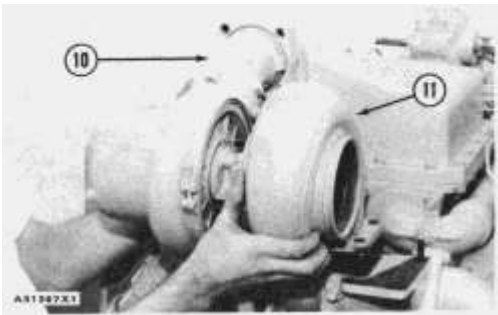


3. Loosen nut (4) on the oil supply line. Remove the bolts from clamps (5). Move supply line (1) to the side.



4. Remove nuts (8) and bolts (9) that hold the turbocharger and exhaust elbow to the exhaust manifold.

5. Remove exhaust elbow (6) and bracket (7) as a unit.



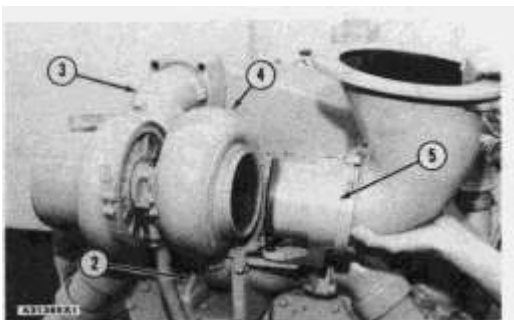
6. Remove turbocharger (11) and pipe (10).

7. Remove pipe (10) from the turbocharger.

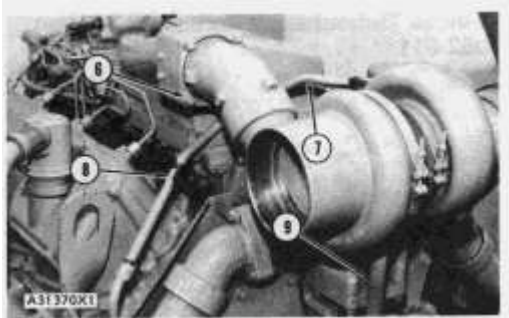
Install Turbocharger (Industrial Engine)



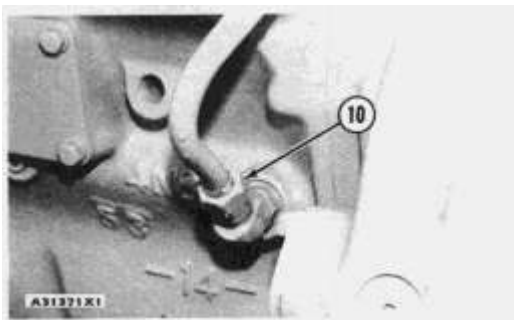
1. Put gasket (1) into position on exhaust manifold (2).



2. Put clean engine oil or glycerine on the O-ring seals of pipe (3). Install pipe (3) on turbocharger (4).
3. Install turbocharger (4) on exhaust manifold (2).
4. Install exhaust elbow and bracket (5). Put 5P3931 Anti-Seize Compound on the studs and bolts that hold the turbocharger and exhaust elbow to manifold (2). Tighten the nuts to a torque of 55 ± 5 N·m (41 ± 4 lb.ft.).



5. Connect oil supply line (7) and drain line (9) to the turbocharger. Put 5P3931 Anti-Seize Compound on the bolts that hold the oil lines.
6. Install bolts (6) at the inlet of the aftercooler.
7. Install two bolts for clamps (8).



8. Tighten nut (10) on the oil supply line.

[Previous Screen](#)

Product: ARTICULATED TRUCK

Model: D44B ARTICULATED TRUCK 8SD

Configuration: D44B ARTICULATED DUMP TRUCK 8SD00001-UP (MACHINE) POWERED BY 3408 ENGINE

Disassembly and Assembly 3408 & 3408B INDUSTRIAL AND MARINE ENGINES

Media Number -SEN7382-02

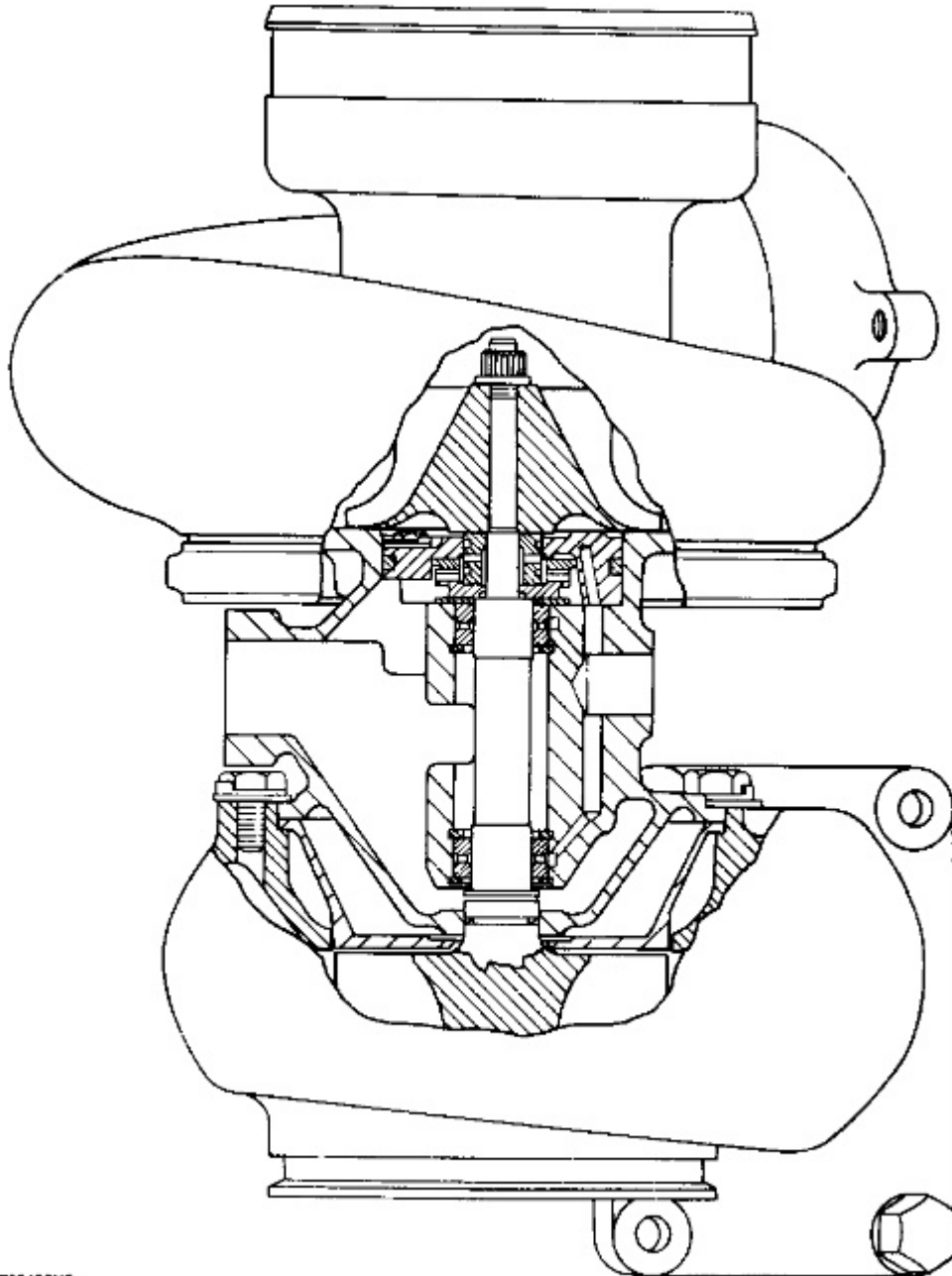
Publication Date -01/12/1985

Date Updated -05/01/2016

SEN73820010

Turbocharger (T12)

SMCS - 1052-015; 1052-016



T98428X3

Disassemble Turbocharger (T12)

Tools Needed		A	B	C	D	E	F
9S6363	Fixture Group	1					
9S6343	Cartridge Fixture		1				
8S9944	Turbine Holder			1			
FT808	Adapter				1		
FT165	Fixture (Modified)					1	
FT174	Driver Tool						1



Suggest:

If the above button click is invalid.

Please download this document

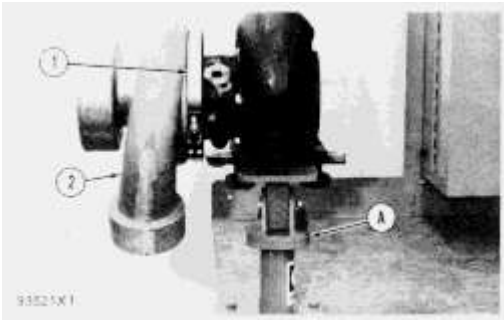
first, and then click the above link

to download the complete manual.

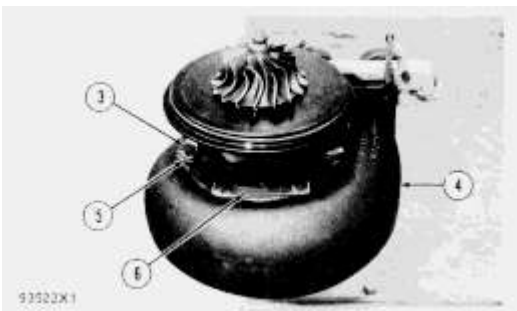
Thank you so much for reading

START BY:

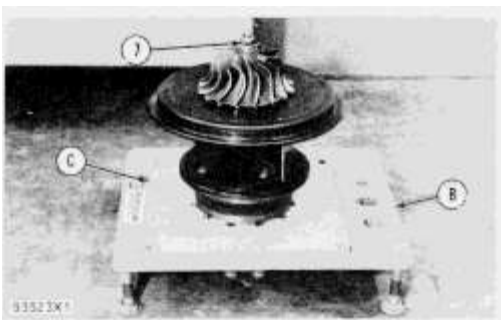
a. remove turbocharger (T12)



1. Install the turbocharger on tool (A).
2. Put alignment marks on the housings for correct installation at assembly.
3. Loosen clamp (1). Remove compressor housing (2). Remove the clamp.



4. Remove bolts (3), locks (6) and plates (5).
5. Remove the center section from turbine housing (4).



6. Install tool (C) in tool (B). Install the center section in tool (C) as shown.

NOTICE

When nut (7) is loosened, do not put side force on the shaft. The shaft may bend.

<https://www.ebooklibonline.com>

Hello dear friend!

Thank you very much for reading.

Enter the link into your browser.

The full manual is available for immediate download.

<https://www.ebooklibonline.com>