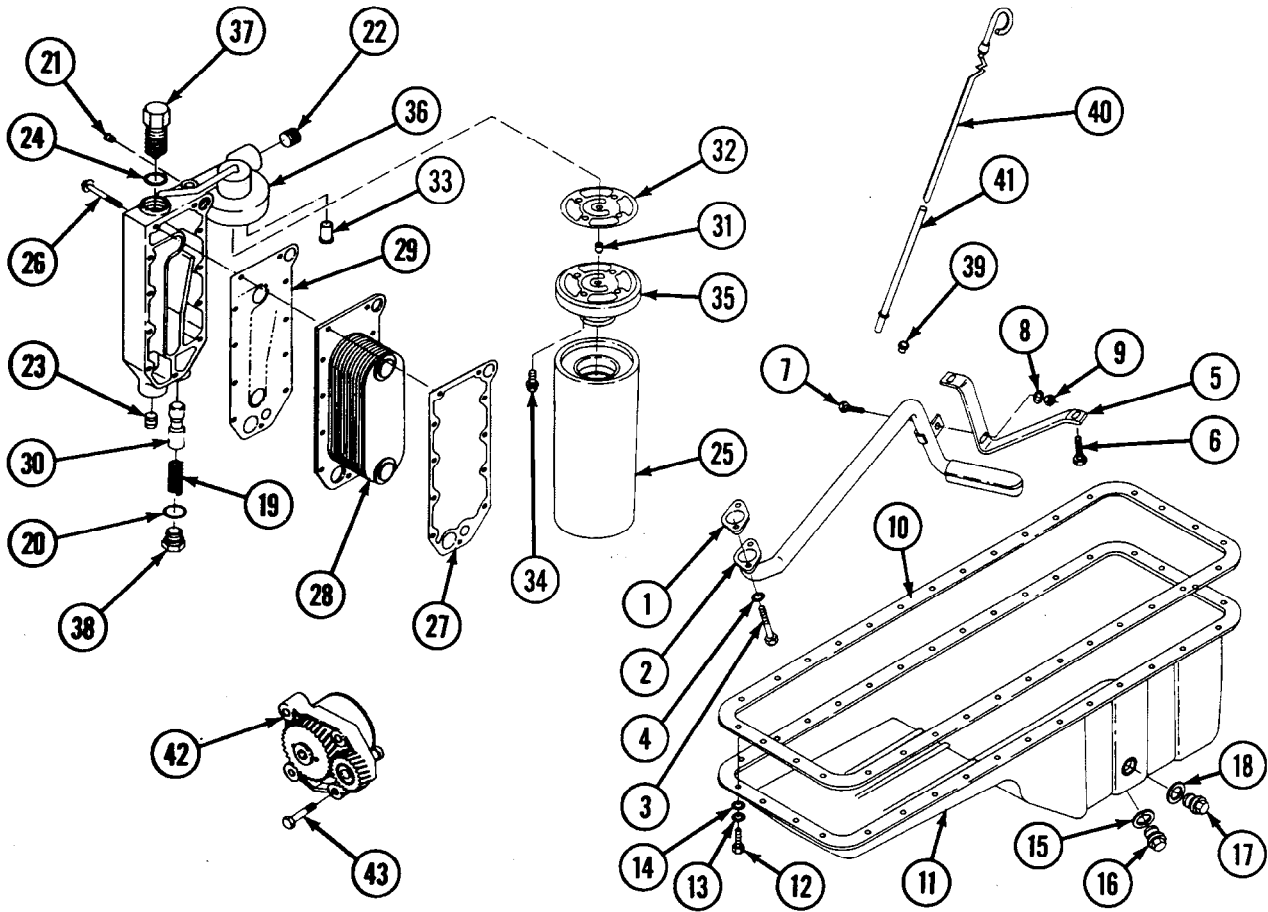


Lubricating Oil System - Exploded View



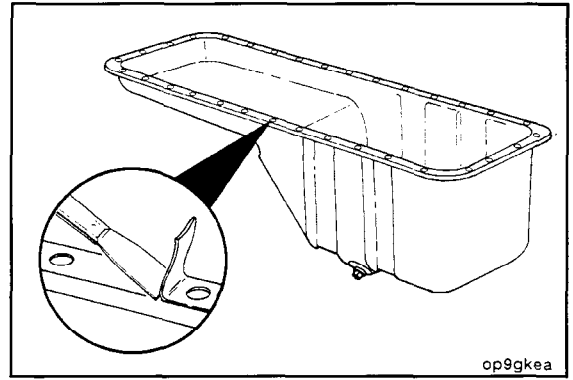
Ref. No.	Description	Qty
1	Gasket, Suction Tube	1
2	Tube, Lube Oil Suction	1
3	Screw, Socket Head Cap	2
4	Spacer, Mounting	2
5	Brace, Suction Tube	1
6	Screw, Hex Head Cap	2
7	Screw, Hex Head Cap	1
8	Washer, Plain	1
9	Nut, Hex Flange	1
10	Gasket, Oil Pan	1
11	Pan, Oil	1
12	Screw, Hex Head Cap	32
13	Washer, Spring	32
15	Washer, Sealing	1
16	Plug, Threaded	1
17	Plug, Threaded	1
18	Washer, Sealing	1
19	Spring, Compression	1
20	Seal, O-Ring	1
21	Plug, Pipe	2
22	Plug, Pipe	1

Ref. No.	Description	Qty
23	Plug, Pipe	1
24	Seal, O-Ring	1
25	Element, Lube Oil Filter	1
26	Screw, Hex Flange Head Cap	11
27	Gasket, Oil Cooler Element	1
28	Element, Oil Cooler	1
29	Gasket, Lube Oil Cooler Cvr.	1
30	Plunger, Pressure Regulator	1
31	Dowel, Ring	1
32	Gasket, Filter Head	1
33	Valve, Bypass	1
34	Screw, Hex Flange Head Cap	4
35	Head, Lube Oil Filter	1
36	Cover, Lube Oil Cooler	1
37	Thermostat, Lube	1
38	Plug, Threaded	1
39	Plug, Expansion	1
40	Dipstick	1
41	Tube, Oil Gauge	1
42	Pump, Lubricating Oil	1
43	Screw, Hexagon Head Cap	4

Lubricating Oil Pan - Cleaning and Inspection for Reuse (7-01)

Cleaning

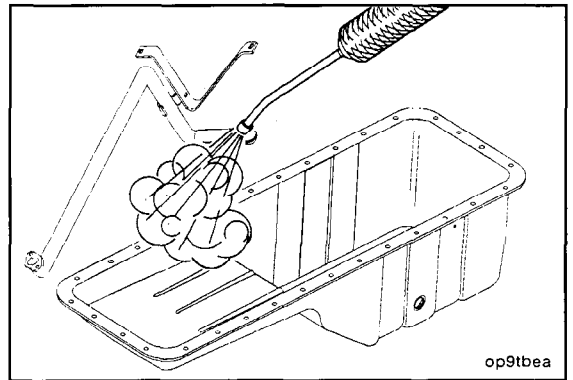
Remove all gasket material from the oil pan gasket sealing surface.



Warning: When using a steam cleaner, wear protective clothing and safety glasses or a face shield. Hot steam will cause serious personal injury.



Use steam to clean the oil pan and suction tube. Dry with compressed air.

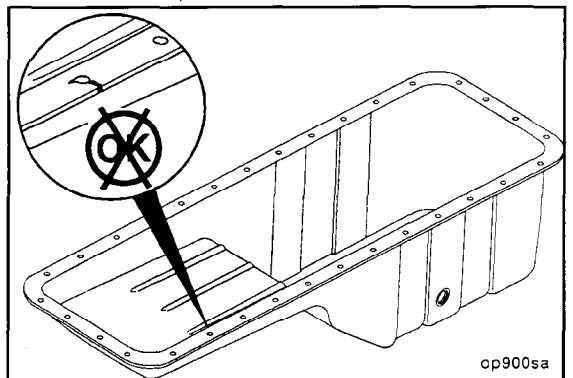


Inspection

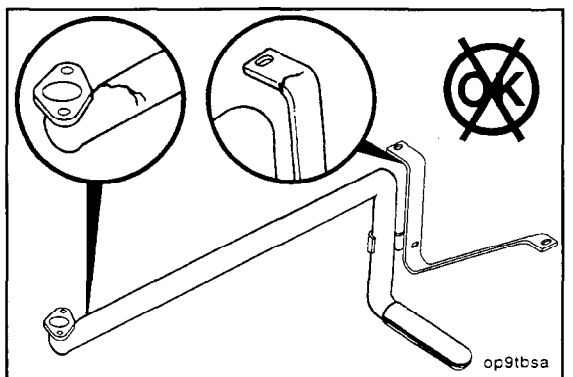
Visually inspect the oil pan for cracks or damage.

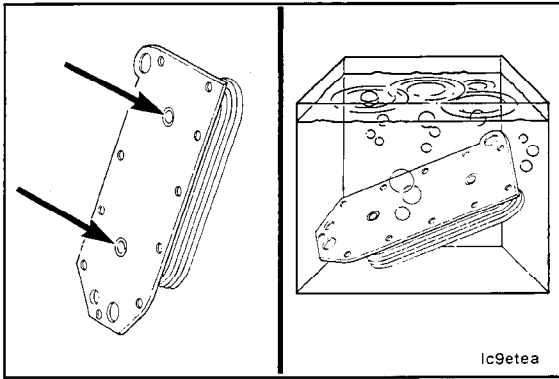
Visually inspect the oil drain plug threads for damage.

Do **not** use a damaged oil drain plug or oil pan.



Visually inspect the oil suction tube and brace for cracks. Do not reuse a cracked oil suction tube or brace.



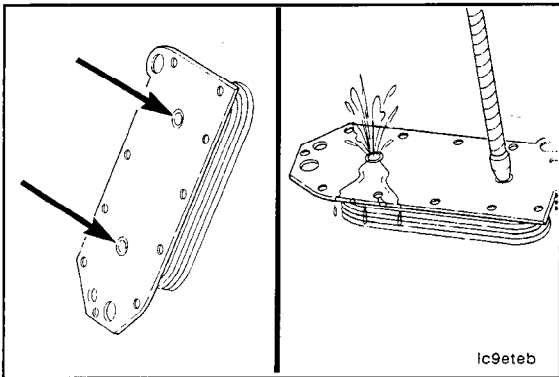


Oil Cooler Element - Cleaning and Inspection for Reuse (7-02)

Cleaning



Plug the cooler element and soak it in a cleaning solution to remove the coolant deposits.

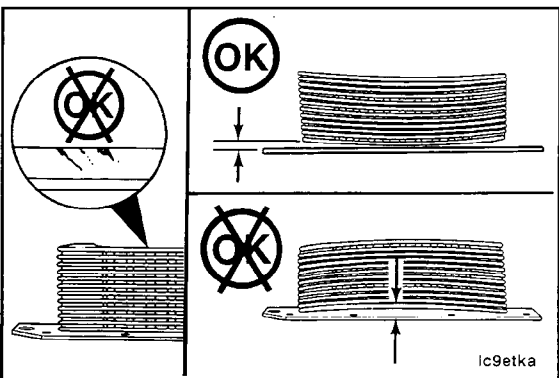


Remove the plugs and soak the cooler element in solvent.

NOTE: The cooler element can be cleaned in a hot tank.

If the oil passages are contaminated by foreign material, the oil cooler **must** be replaced.

Back flush the oil passages with clean solvent and use compressed air to dry.

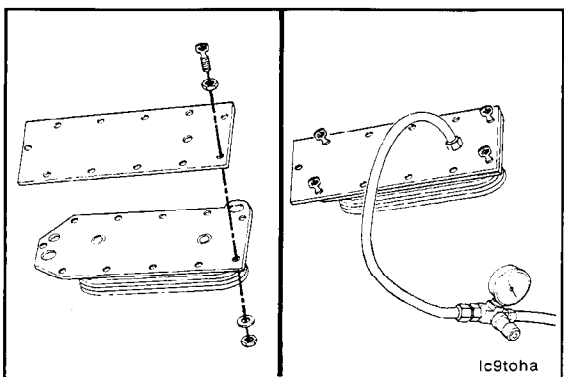


Inspection

Inspect the soldered joints for corrosion or cracks.

Check the element for flatness.

Oil Cooler Element Distortion		
mm		in
0.8	MAX	0.031



Pressure Test



Part No. 3823876 Lubricating Oil Cooler Pressure Test Kit

Install the oil cooler test fixture to the cooler element.



Connect a regulated air line and apply 483 kPa [70 psi] air pressure to the element.

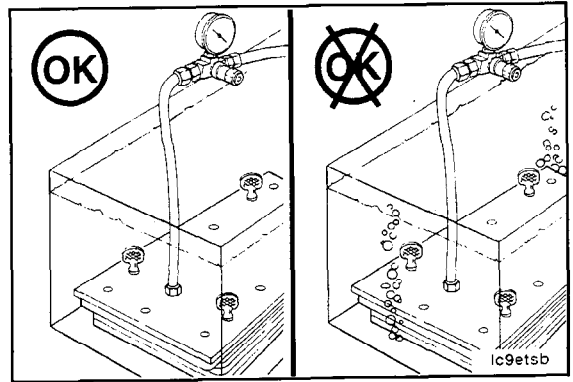


Install the oil cooler element in a tank of water.

Temperature: 82° [180° F]

Check for leaks.

If leaks are found in the oil cooler element, the element **must** be replaced.

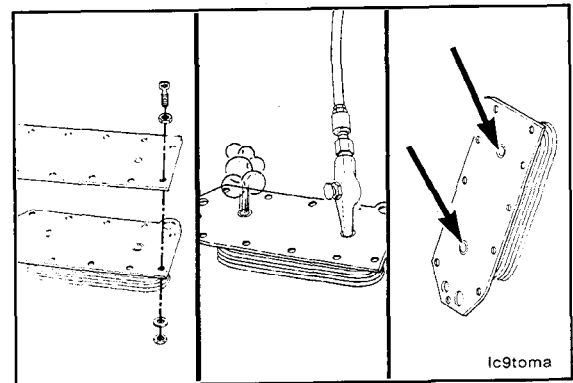


Remove the oil cooler from the tank of water.

Remove the pressure test equipment.

Use compressed air to dry the oil cooler.

Cover all of the openings with tape to prevent dirt from entering the element when it is **not** in use.

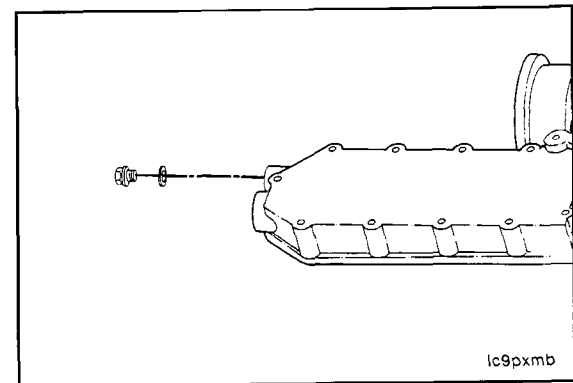


Oil Pressure Regulating Valve - Cleaning and Inspection (7-03)

Disassembly

22 mm

Remove the threaded plug and o-ring seal.



Remove the spring and pressure regulator plunger.

