

Authorized Field Change



AFC G-03908 Revised

This AFC replaces G-03908

Date: July, 2004

Subject File: ENGINE

Subject: Front Cover and Oil Cooler Header Gasket Resiliency Depletion on International® DT 466 and 530 Engines Built Between August 1, 2000 and January 22, 2004

Engine Family: DT 466

Start Date: 08/01/2000 End Date: 01/22/2004

Engine Family: 530

Start Date: 08/01/2000 End Date: 01/22/2004

Truck Model: 2000, 3000, IC Bus, 4300, 4400, 5500i, 5600i, 5900i, 7300, 7400, 7500

DESCRIPTION

Table 1

Assembly Plant	Vehicle Build Date Range
Conway	08/01/00 to 12/15/01
Escobedo	08/01/00 to 01/16/04
Springfield	08/01/00 to 10/15/03 and 01/14/04 to 01/22/04
Garland	08/04/00 to 01/13/04
Tulsa	04/30/01 to 11/24/03

Recent findings indicate “extended life” (ELC) engine coolant is reacting with the front cover and oil cooler header gaskets on all inline 6 cylinder International® DT 466 and 530 engines (refer to Table 1 for build dates), potentially resulting in a loss of gasket resiliency and subsequent coolant leakage. This condition may occur at higher mileage/hours. Adding the correct amount of silicate additive to the cooling system will prevent this from occurring.

DESCRIPTION (CONT.)

ADD ONLY TO ENGINES WITH ELC – Do not install silicate additive in cooling systems that have coolant other than Extended Life Coolant (red) factory fill. Silicate fluid should not be added to cooling systems that have been mixed with conventional coolants (green, purple, blue, brown), other organic acid technology coolants or have been treated with supplemental coolant additives (DCA). This restriction applies to cooling systems that either contain 100% foreign coolants or just “topped off” with these other coolants.

If you check a vehicle involved in this AFC and it doesn't have a “Silicate Added” label installed, please contact the customer and verify that silicate hasn't been added without the label being installed. The customer should also have the silicate kit for the vehicle. If the customer doesn't have the kit and you add the silicate and a label, be sure to tell the customer not to add anymore.

PARTS INFORMATION

Table 2 **Part Information**

Part Number	Description	Quantity
8000845R91	Silicate Additive Kit Containing: 2587327R1 Instructions (1) 8 Ounces Silicate Additive (1) Silicate Added Label (1)	1

SERVICE PROCEDURE

NOTE – International Truck has received limited reports of cooling system performance issues from customers that installed the silicate fluid into a cooling system not containing a 100% factory filled Extended Life Coolant (red). There are indications that the silicate fluid is not compatible with coolant other than factory fill. Where this is encountered, coolant gelation can occur, which reduces cooling system performance. Symptoms of this condition can vary, but may include visible indications such as coolant gelation in surge tank and collapsed lower radiator hose.

If any of these conditions are experienced, flushing the cooling system will alleviate this condition. Refilling the cooling system with Fleetrite Extended Life Coolant and re-applying the silicate additive will complete the repair and alleviate the cooling system issues.



WARNING – To avoid property damage or personal injury, or death:

- park the vehicle on a level surface
- set the parking brake
- turn the engine off and chock the wheels
- allow the engine to cool before performing the Service Procedure.

1. Add one bottle of silicate additive to the radiator.

SERVICE PROCEDURE (CONT.)

2. Locate and clean an area on the radiator reinforcement as near coolant fill cap as possible.

Apply the "Silicate Added" label provided in the kit (Figure 1).

3. **RE/ FE Bus Only:** Locate and clean an area near the radiator fill tube.

Apply the "Silicate Added" label provided in the kit (Figure 1).



Figure 1 "Silicate Added" Label

4. Start and run engine immediately. See Caution below.

CAUTION – To insure complete dispersion of the silicate fluid, run engine to achieve normal operating temperatures above 195°F immediately after application of the silicate fluid. This will allow the thermostat to open and obtain complete circulation through the radiator and engine. Do not allow the silicate fluid to lay dormant in the cooling system for any extended period of time before running the engine.

Operation number must appear on all claims.

Table 3 Labor Information

Operation No.	Description	Time
A40-03908-1	Add Silicate Additive to Surge Tank	.3 Hr.
A40-03908-2	Complete Cooling System Flush and Add Silicate Additive	1 Hr.
	See Note Below	

NOTE: A cooling system flush and fill is only to be performed on vehicles with evidence of coolant gelation. This is expected to be an extremely low percentage of the vehicles.

ADMINISTRATIVE PROCEDURE

Expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Authorized Field Change Number G-03908.

It is important that the coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Manual, Section 7-1. Special attention should be given to Items 39 through 44.

To assure this important improvement is made in a timely manner, all claims for G-03908 activity must be submitted by July 31, 2005 or within the normal warranty period for the vehicle, if after July 31, 2005.

GROUP	NOUN	C	WARR.	TP	PAD
GROUP Enter number G—	NOUN Leave blank	C (CAUSE) Enter either 1, 2, 3. (see below)	WARRANTY (Warranty Code) Enter 40.	TYPE PART Enter P for type part causing failure.	PAD Enter 100
		1. Inspected (No repair required).			
		2. Inspected and repaired.			
		3. Defective part from parts stock.			

Distribution: All except J-81
Reproduction: Not required.

Figure 2