

Authorized Field Change

AFC 07915

Date: March, 2008

Subject File: ENGINE

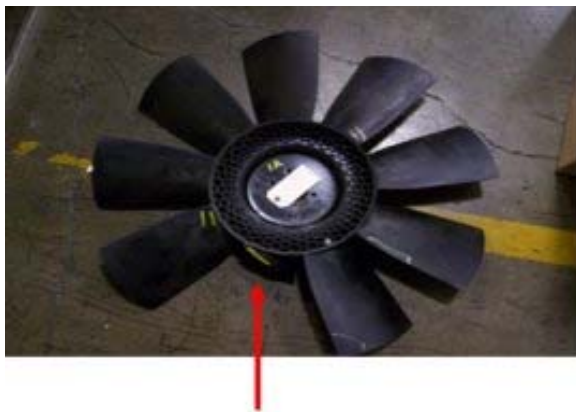
Subject: Fan Blades on 5000 and 7000 Model Vehicles with 2002, 2004 and 2007 Emission Caterpillar and Cummins Engines

Model: 5500i, 5600i, 5900i, 7300, 7400, 7500, 7600, 7700

Start Date: 02/01/2002 End Date: 09/17/2007

DESCRIPTION

Some engine fan blades on 5000 and 7000 model vehicles equipped with 2002, 2004 and 2007 emission Caterpillar and Cummins engines have experienced cracking. It has been found that some of the fan blades crack at the center or root of the blade and some cracks are at the tip of the blades. A new blade has been designed to prevent this cracking at the root of the blade normally due to engine overspeed. The damage and cracking at the tip of the blade is caused by the fan blade hitting another object (a stationary component or foreign material).



PARTS INFORMATION

Table 1 **Parts Information**

Part Number	Description	Quantity
3625639C1	9 Blade Fan Blade	1 per vehicle
3820083C1	11 Blade Fan Blade	1 per vehicle
2596649C1	Fan Blade for a 2 Speed Clutch for a 7600 or a 7700 Model Vehicle	1 per vehicle
2596650C1	Fan Blade for a 2 Speed Clutch for a 5000 Model Vehicle	1 per vehicle

SERVICE PROCEDURE



WARNING – To prevent personal injury or death, make sure the engine is in neutral or park, parking brake is set, and wheels are blocked before doing diagnostic or service procedures on engine or vehicle. Read all safety instructions in the SAFETY INFORMATION section of the service manual for this vehicle.



WARNING – To prevent personal injury or death, remove ignition key or disconnect battery so engine can not be started while you are working on the front of the engine.



WARNING – To prevent personal injury or death, let a hot engine cool sufficiently before attempting to change or inspect the fan blade.

Inspection Procedure

Visually inspect the color of the fan blade

- A. If the blade color is white, the blade has already been replaced with the new blade (no action needed).
- B. If the blade color is black, the fan blade needs to be replaced.

Replacement of the Fan Blade

1. Make note of the leading and trailing edge of the blade to make sure the new fan blade is installed in the same air flow direction.
2. Remove charge air cooler pipes.
3. Tilt hood/radiator assembly forward for access or loosen or remove fan shroud when required.
4. Remove old fan blade and install new fan blade and torque nuts to 28 to 35 lbf-ft or 32 to 39 Nm.
5. Reinstall fan shroud if it was removed or loosened.
6. Reposition radiator assembly if moved.
7. Install charge air cooler pipe(s).

Engine Mount Inspection on 5000 Models

1. Using a light and, if needed, a mirror, inspect the engine mounts for wear (you may need to disassemble the mounts to determine if they have separated). Or, you can put pressure on the engine mounts and inspect for movement in the motor mounts.
2. If there is movement or wear in the mount insulation material, the customer should be contacted and the engine mounts should be replaced (this is a maintenance item not covered under this AFC).

Operation number must appear on all claims.

Table 2 Labor Information

Operation No.	Description	Time
A40-07915-1	Inspection of vehicle if blade has already been changed	0.3 Hr.
A40-07915-2	Labor to change fan blade on 5000 models and inspect motor mounts	0.8 Hr.
A40-07915-3	Labor to change fan blade on 7000 models	0.8 Hr.

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-07915.

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-07915 activity must be submitted by March 31, 2009 or within the normal warranty period for the vehicle, if after March 31, 2009.

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.