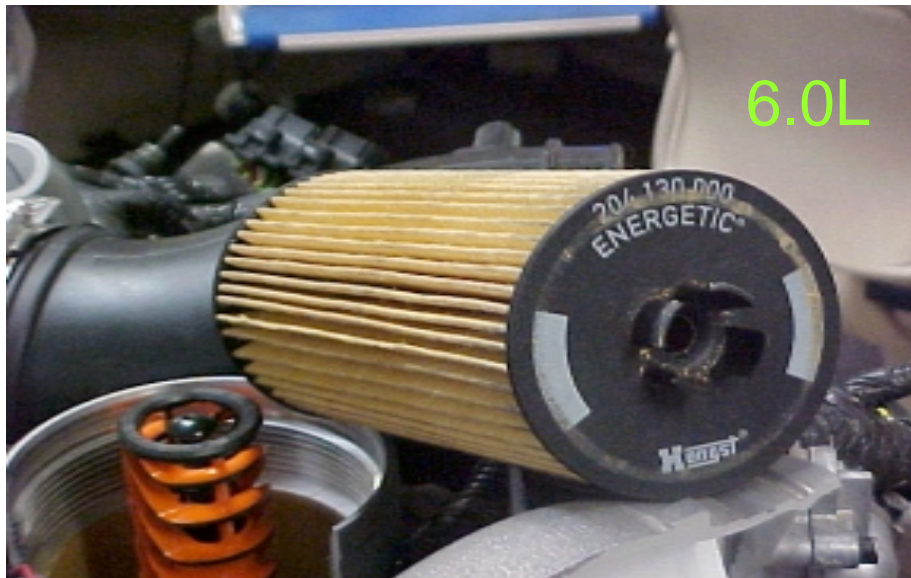
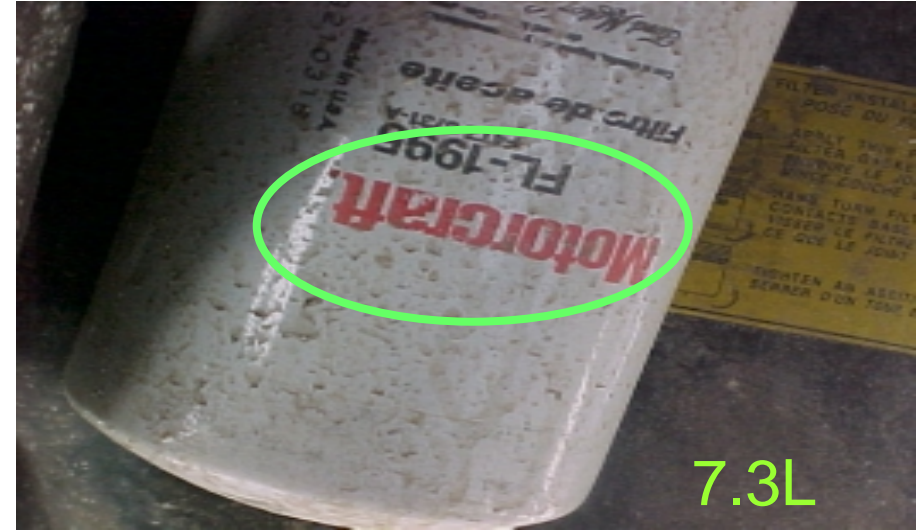
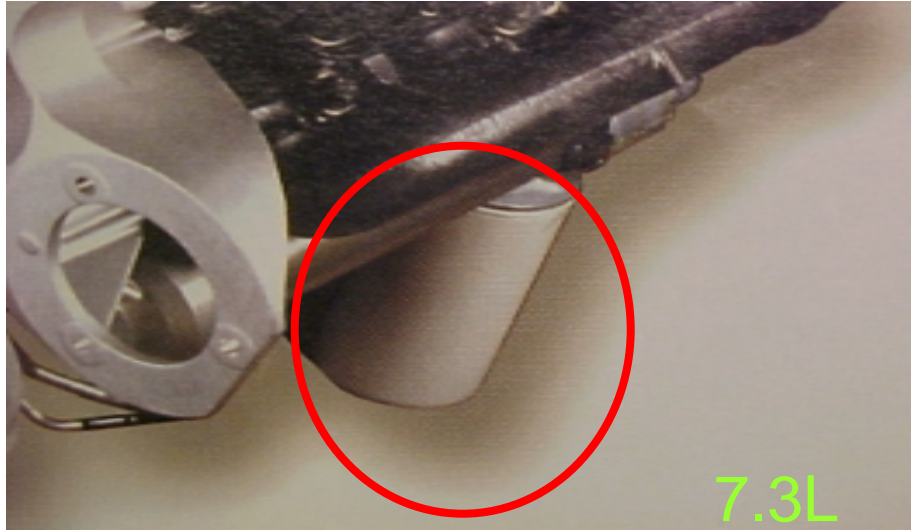


# Diesel Engine Maintenance Information

## Oil Filter Identification (Factory Installed vs. Service)



### Note on Diesel Engine OEM Filter:

The 7.3L factory installed filter is completely white and has no markings on it. The service filter has the word Motorcraft in **red** lettering

The 6.0L oil filter is a cartridge style and has no special distinction between the factory installed and service. The filter cartridge shown in the pictures is the factory installed filter.

## Excessive Air Filter Change Intervals



**Clean Air Filter**



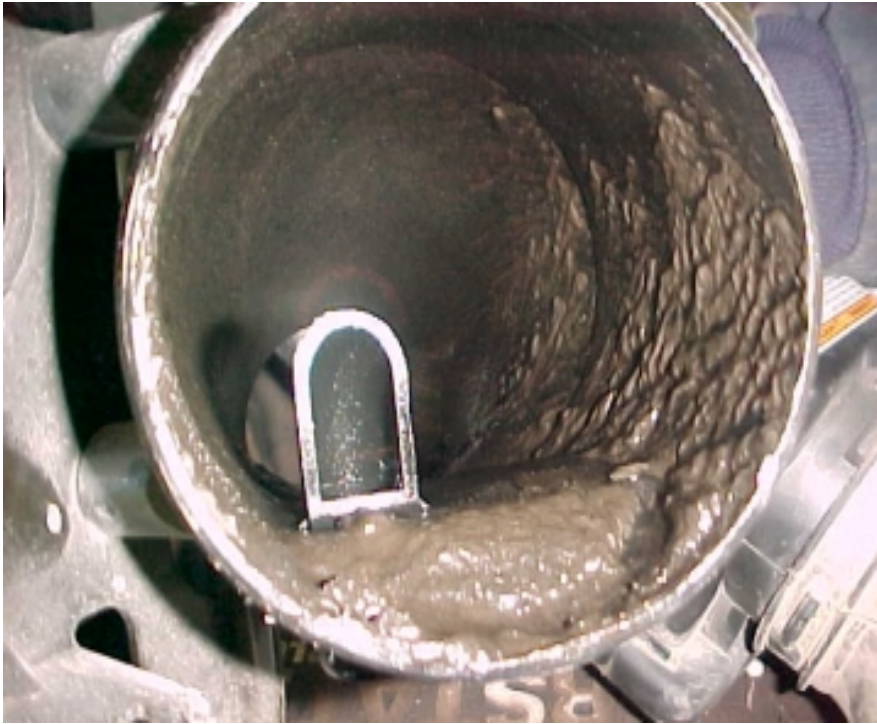
**Example of Excessive Debris in Air Filter**

**This kind of debris can lead to:**

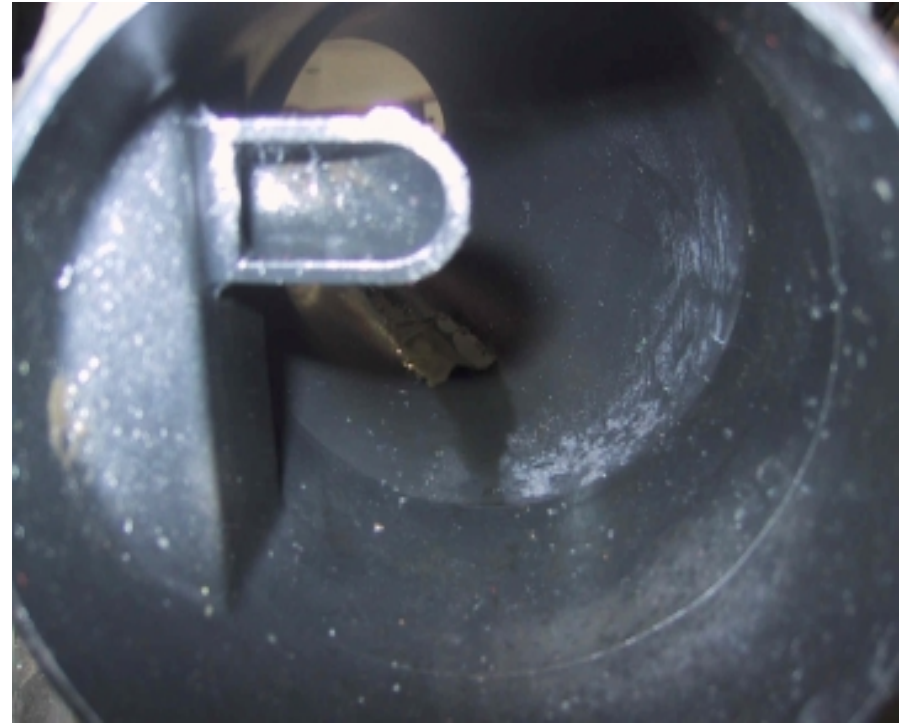
- Non-warrantable/premature turbo wear and damage
- Non-warrantable/premature engine damage/wear
- Non-warrantable drivability symptoms and dirt in the intake tube
- Non-warrantable damage/collapse of air intake system



## **Example of Dirt in the intake tube from improper Air Filter maintenance**



**Dirt/Debris in the Intake Tube**



**Clean Intake Tube**

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## Split Intake Tube



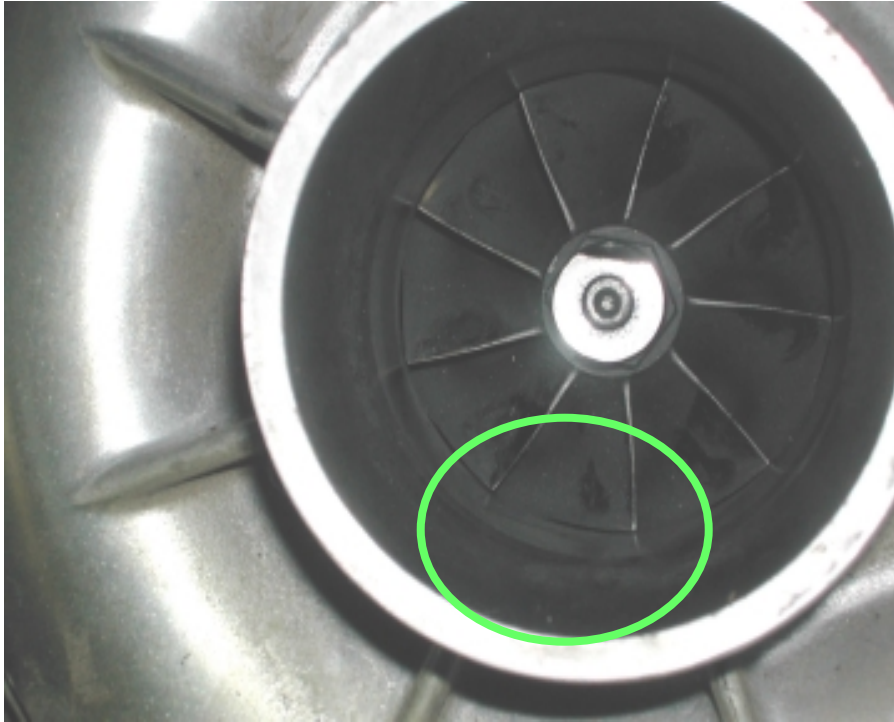
**Split Intake Tube**



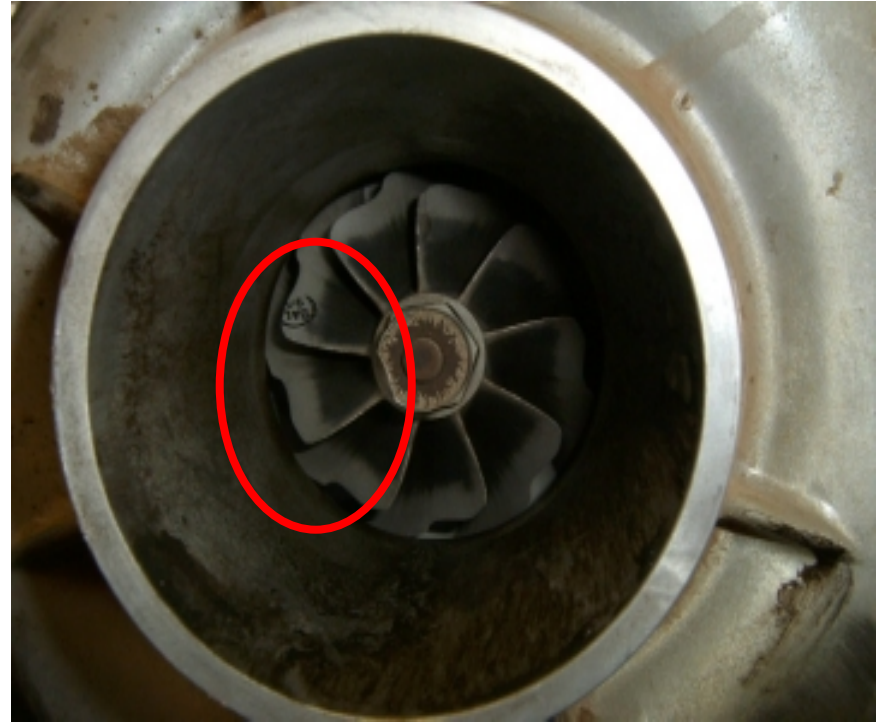
**Good Intake Tube**

An intake tube that is split is evidence of improper maintenance of the air filter element. When the air filter becomes extremely restricted with debris, diesel engines will pull a strong vacuum on the intake system. This vacuum is strong enough to collapse the intake tube on acceleration. After this occurs multiple times, the tube splits and can allow unfiltered air into the engine and additional non-warrantable engine component wear.

## Dusted Turbo Impeller Fins



**Acceptable Turbo Impeller Fin wear (88,000 miles on Turbo)**



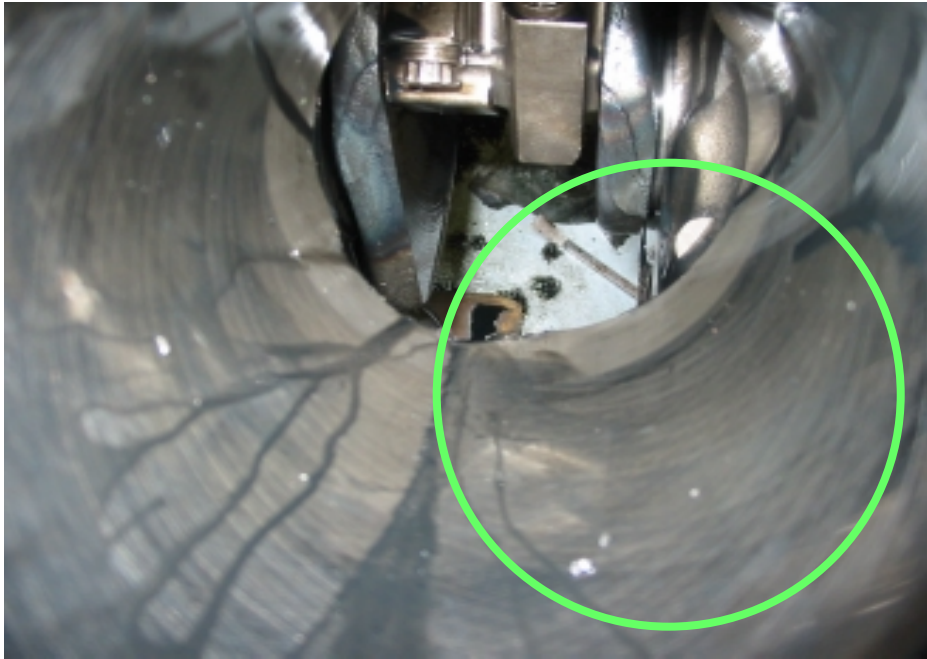
**Non-warrantable/excessive Turbo Fin Impeller wear from dirt/dust ingestion**

### Things to Note:

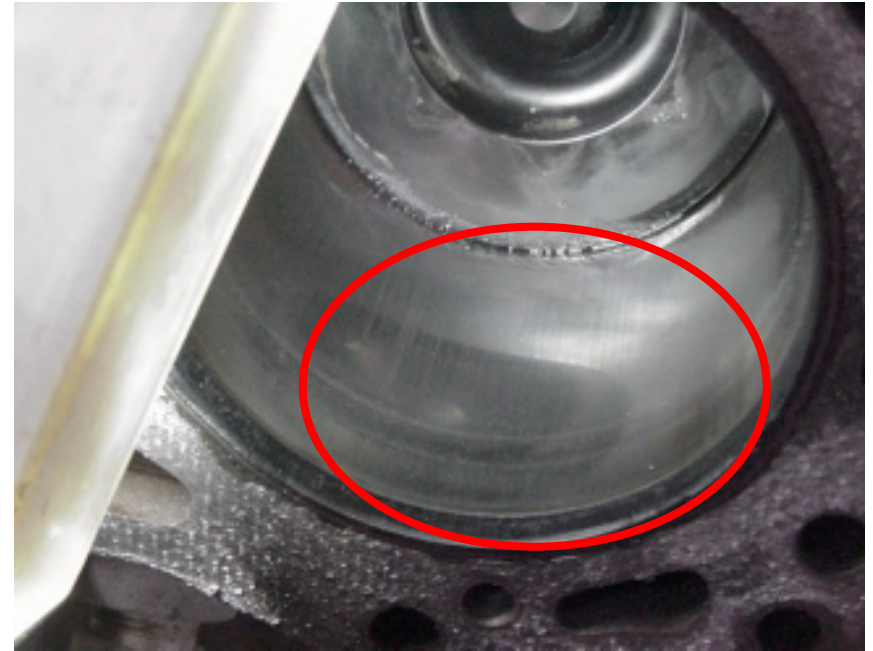
Dirt Ingestion (Dusting) is pre-mature turbo/engine wear caused by unfiltered air entering the engine. Turbocharger Fins, valves, pistons and cylinder walls can be damaged by the dirt ingestion. Non-warrantable reasons include improperly installed air filter, aftermarket air filter, cracked air box, plugged air filter and cracked intake tube. Driveability or compression related conditions from improper air filter maintenance would not be covered by warranty or ESP.



## Example of Cylinder Wall condition from dusting



**Good Cylinder Wall  
(cross-hatch still present)**



**Non-warrantable - Cylinder wall  
scored and polished (mirror finish)  
from improper air filter maintenance**

### **Things to note:**

Compression related conditions from improper air filter maintenance are not covered by warranty or ESP.