

## The CP3 High-Pressure Fuel Pump “Freeze” Plug Story

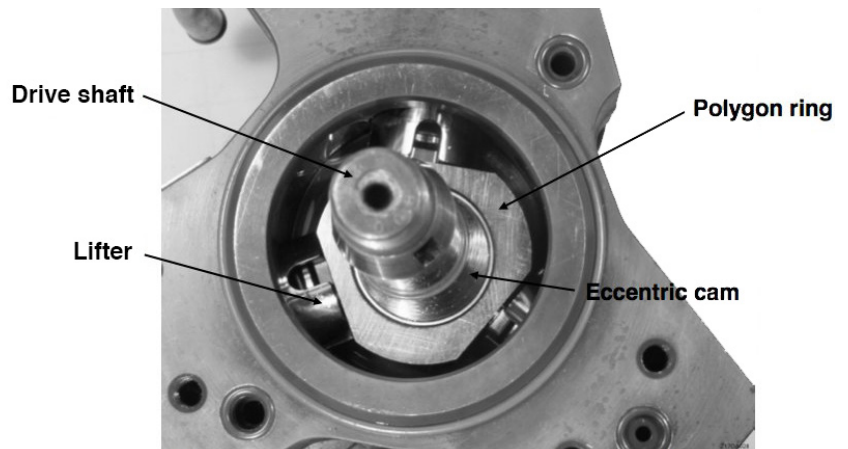


A reoccurring question we're asked is why DIPACO / DTech doesn't accept CP3 high-pressure fuel pump cores with missing “freeze” plugs. The reason for this is a missing housing plug or plugs makes the core unrepairable.

Let's look a little deeper into what causes the plugs to come out and the consequences. When one or more CP3 tappets or pumping plungers seize in their bore there is tremendous force applied to those parts by the lift of the driveshaft and polygon ring assembly. The result is metal parts breaking into large pieces that migrate around inside the pump housing causing extreme damage to all components. The metal fragments eventually get wedged between the polygon ring and the housing plugs forcing them out of the housing.

It's not that the plugs are missing that makes a pump core unacceptable, it's because the pump is so heavily damaged that it's only good for use as scrap metal. Our remanufacturing program can't provide a high quality and cost competitive CP3 pump if we accept cores that cannot be remanufactured.

Missing plugs are easy to spot with a visual inspection of a CP3 pump core. If the plugs are missing a conversation with the vehicle owner about the importance of fuel filter service, fuel quality and potential damage from use of high performance devices is recommended.



3 pumping pistons are operated by a polygon ring on an eccentric cam on the pump drive shaft.

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