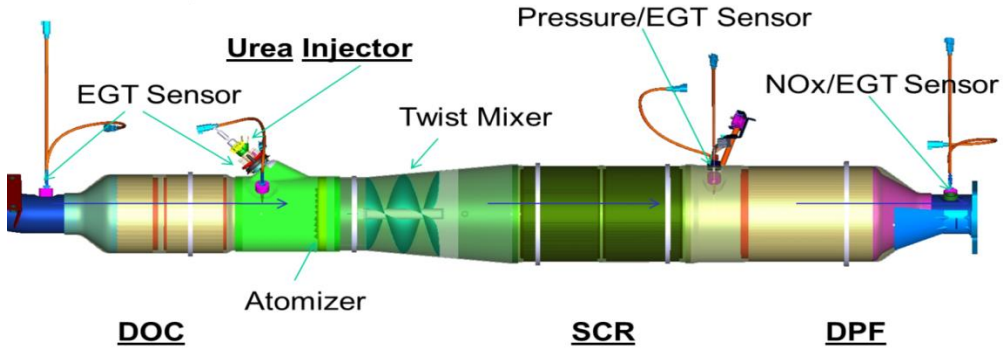
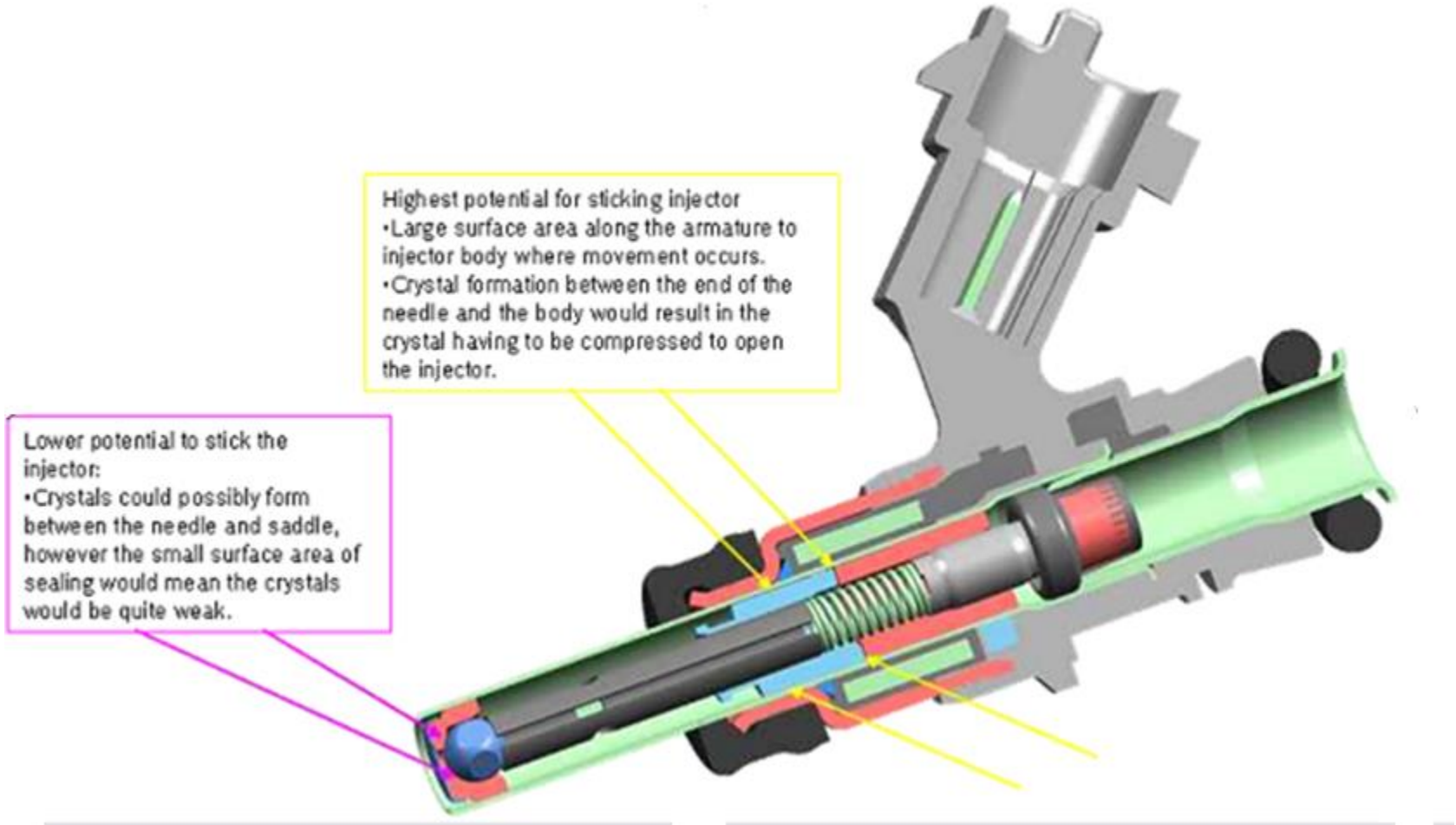
General Service Bulletin (GSB):	6.7L Diesel Exhaust Injector Fluid Cleaning
GSB Overview:	This bulletin provides information on a newly developed Integrated Diagnostic System (IDS) routine to clean Diesel Exhaust Fluid (DEF) Injectors and restore proper function of the Selective Catalytic Reduction System (SCR) without removing the injector.
NOTE: This information is not intended to replace or supersede any warranty, parts and service policy, Work Shop Manual (WSM) procedures, PC/ED procedures or technical training or wiring diagram information.	

A new function has been added to the IDS tool to clean diesel exhaust fluid (DEF) injectors on 2011-2016 6.7L Superdutys.
Without removing the injector from the exhaust system, the tool automatically cleans crystalized DEF that forms inside the injector preventing proper function of the Selective Catalytic Reduction (SCR) system.

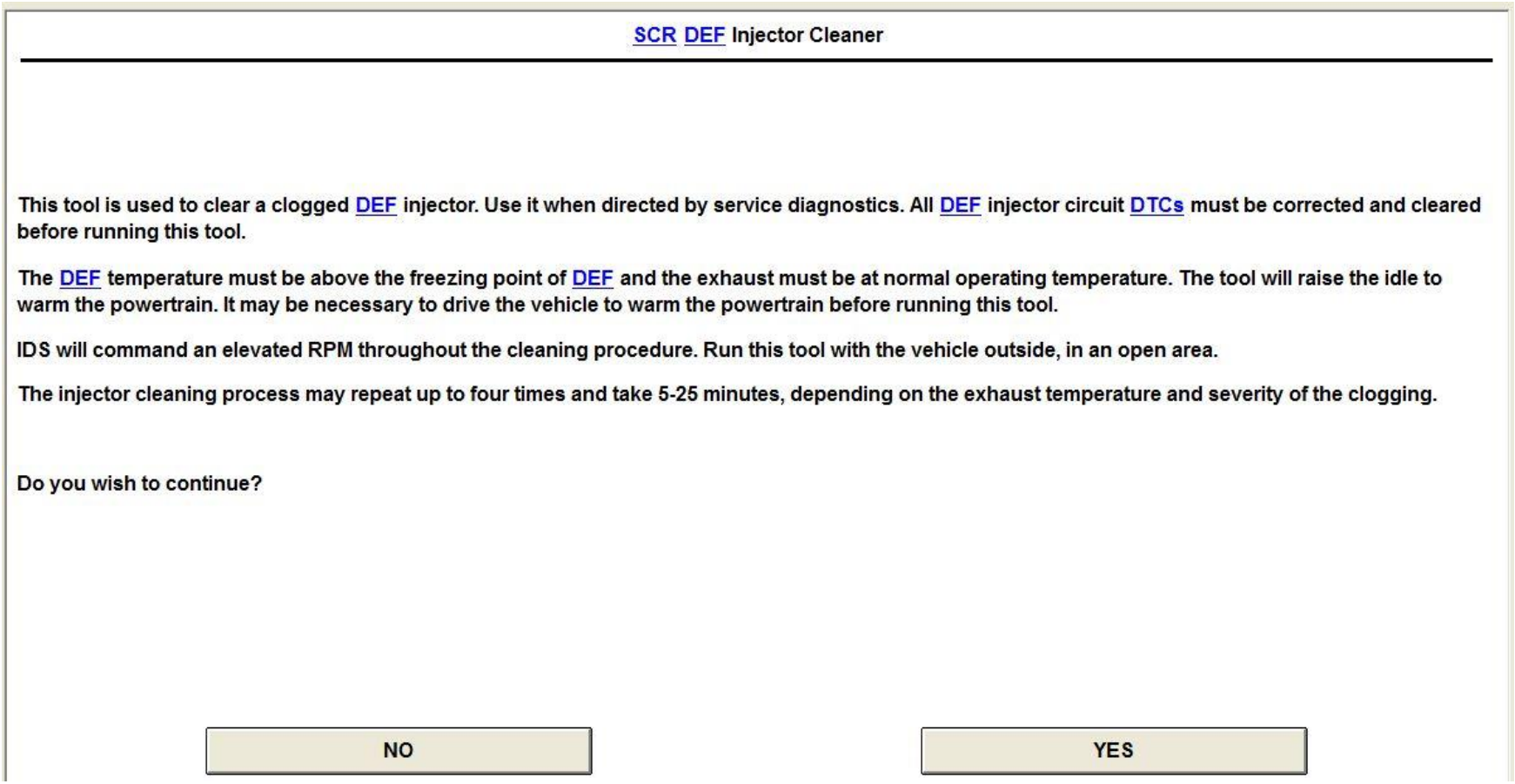


Potential Crystallization Points Inside Injector



Examples of DEF crystal formation on injector tip and exterior

Important IDS Tool Information

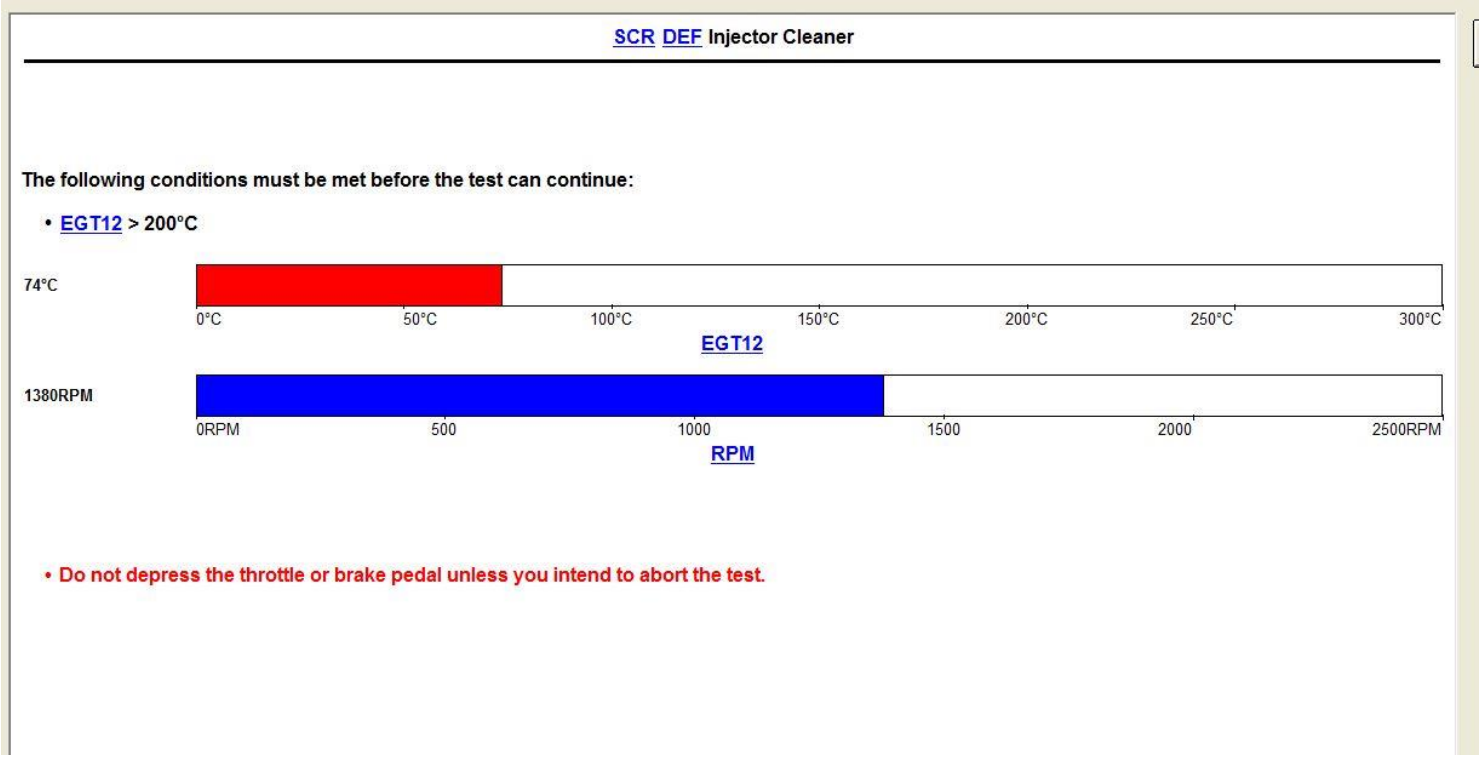


Frozen DEF Message

The tool will check for a frozen DEF tank and display this message if the DEF is frozen.

The diesel exhaust fluid tank is frozen. Drive or run the truck to heat the DEF. The time to thaw the tank will vary, depending on the amount of frozen material in the tank.

Automated warmup to injector cleaning temperature



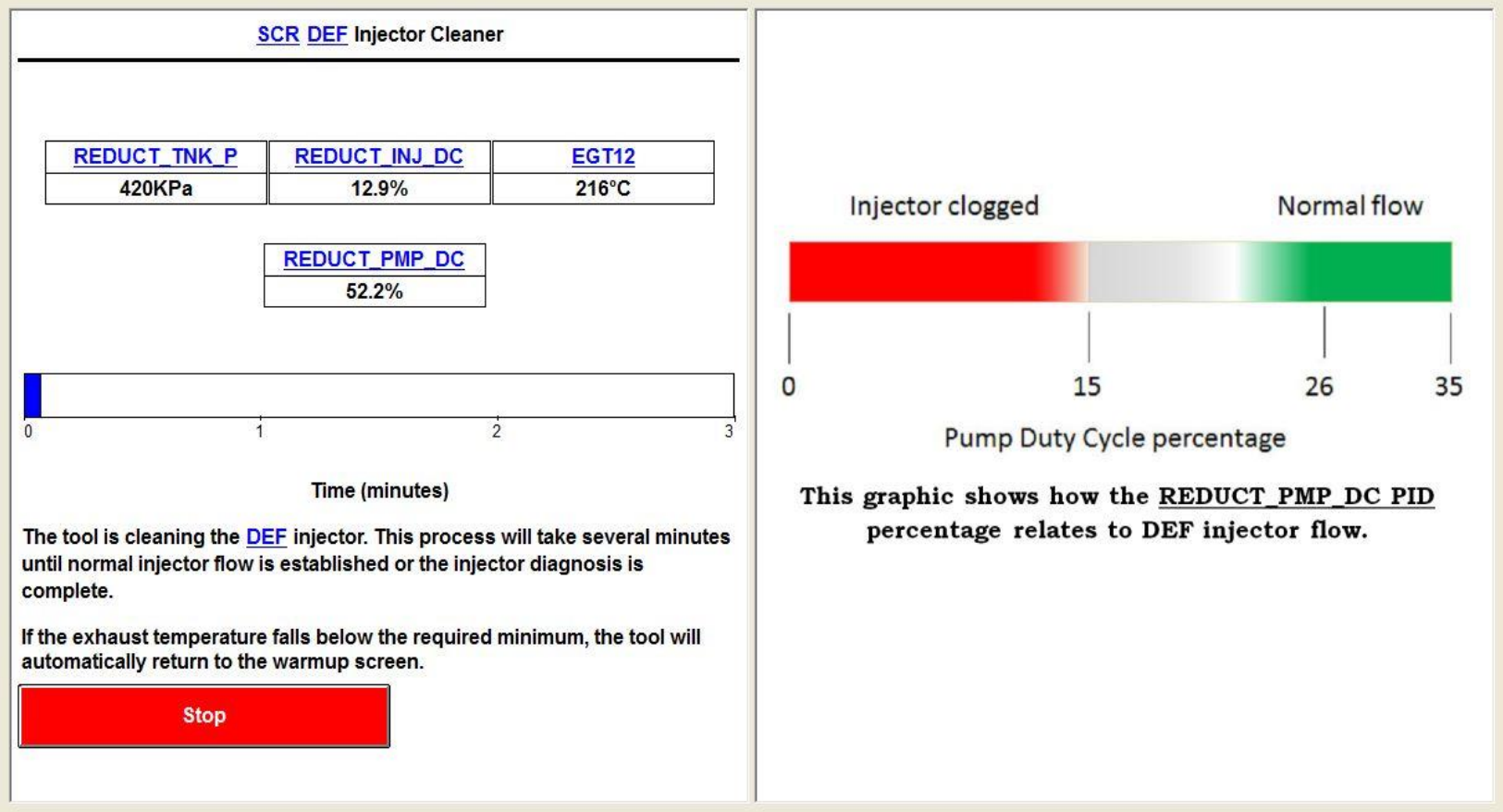
Establishing correct dosing pressure

REDUCT_TNK_P	REDUCT_PMP_DC	REDUCT_INJ_DC	EGT12
73.08psi	14.1%	0%	393.8°F

The tool is cleaning the DEF injector. This process will take several minutes until normal injector flow is established or the injector diagnosis is complete.

If the exhaust temperature falls below the required minimum, the tool will automatically return to the warmup screen.

System Pressurization and Injector Pulsing



Waiting for correct temperature

EGT12
234°C

Cool down phase: EGT12 < 197°C

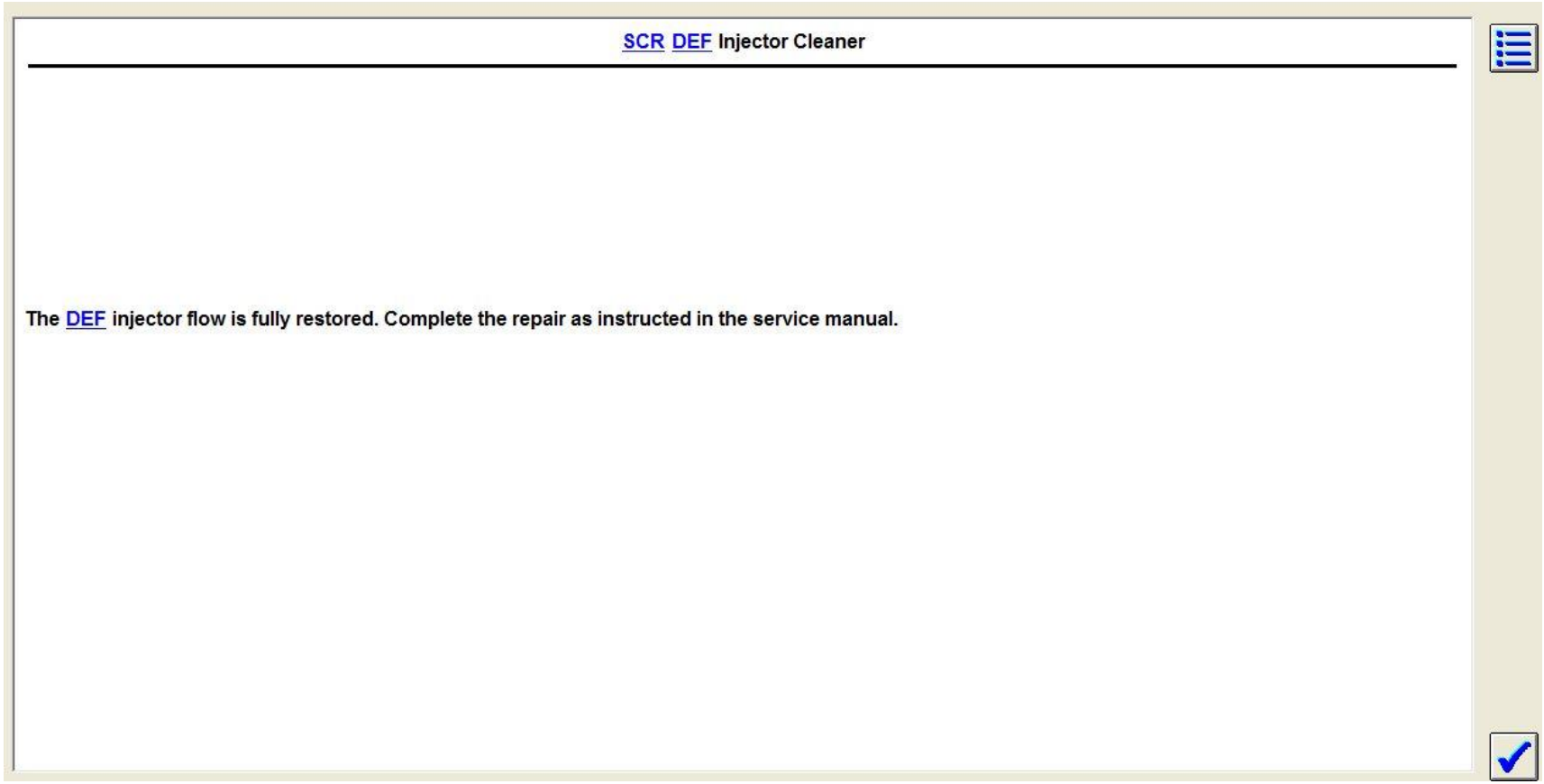
Reversing Flow with Maximum Injector Duty Cycle

REDUCT_TNK_P	REDUCT_PMP_DC	REDUCT_INJ_DC	EGT12
0KPa	40%	99.6%	175°C

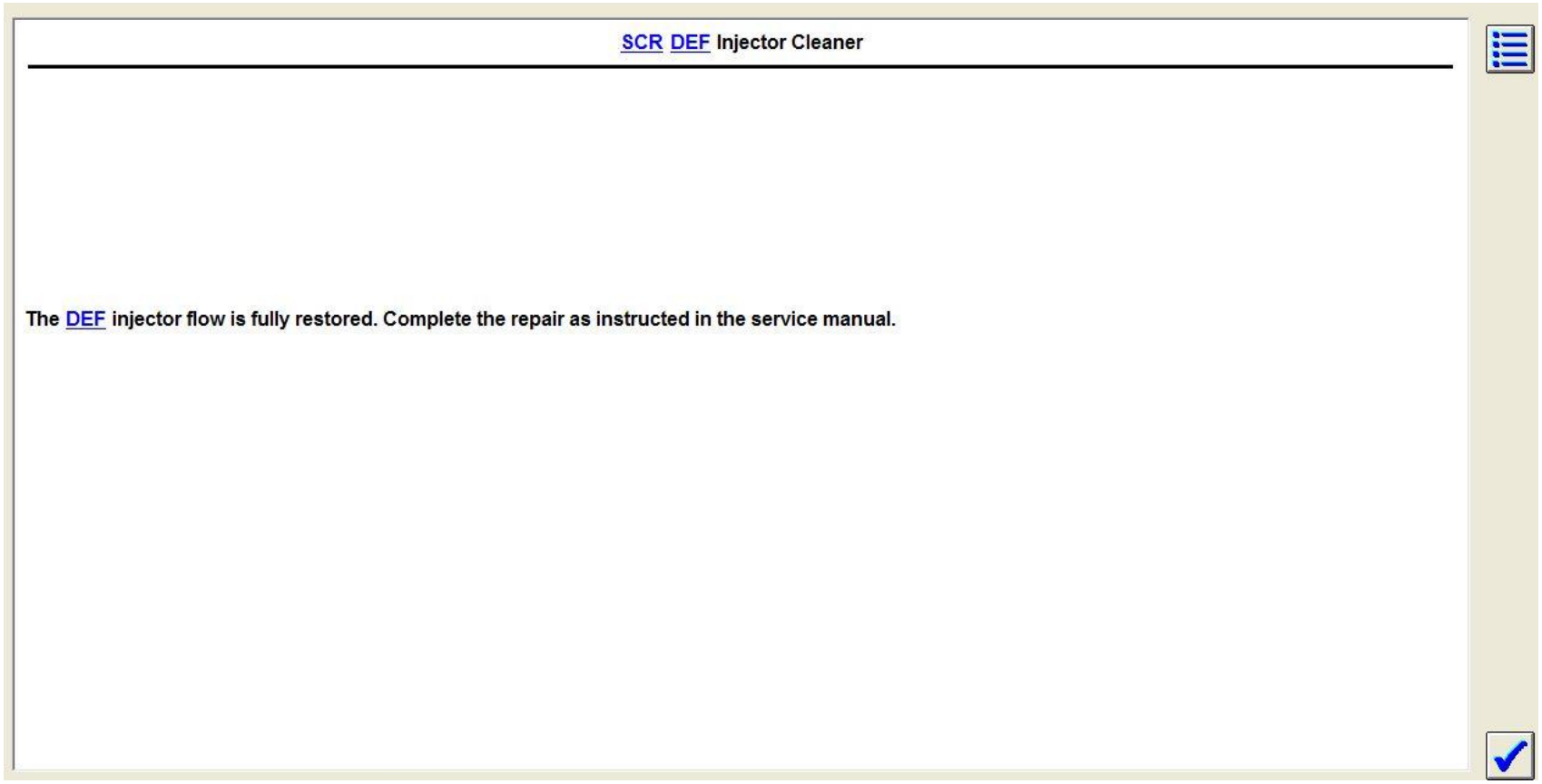
Wait 60-120 seconds while the reductant line is emptied.

Next Cleaning Phase Message

If needed, the tool will repeat warmup and start another phase of the cleaning process. Press the tick to continue.



Successful Injector Cleaning Message



Unsuccessful Injector Cleaning Message