

FULLY FORMULATED ANTIFREEZE

Much confusion in the heavy duty antifreeze market surrounds the addition of supplemental coolant additives (SCAs). Heavy duty antifreezes require SCAs to provide cavitation protection. Because SCAs deplete during use, antifreezes require SCA additions many times during the life of the antifreeze. These multiple additions cause a large amount of variance in the level of SCAs found in most cooling systems. This situation is worsened by the fact that most heavy duty cooling systems leak. Leaking systems require “top off” with fresh antifreeze for proper maintenance. Topping off with non-SCA charged coolant only adds to the variability of an already variable system. In order to help alleviate this problem Old World Industries has introduced Fleet Charge and Fleet Charge/PG fully formulated antifreezes. This article will discuss how using Fleet Charge antifreeze can greatly reduce the variability associated with heavy duty coolants.

When using a conventional antifreeze to initially fill a heavy duty cooling system, addition of a separate SCA provides protection against cavitation. At this point it is fairly easy to determine the level of SCA to add. You know there is no SCA already in the coolant and you know how much coolant you added. From this point forward the situation becomes more complicated. As the vehicle operates, the SCA depletes. With continuing depletion it becomes necessary to add additional SCA. Additionally, most systems leak. In order to maintain the proper freeze protection and coolant level it is necessary to add additional antifreeze. Addition of non-SCA containing antifreeze to make up the volume of antifreeze that has leaked out further reduces the SCA in the antifreeze. Due to these variables the exact time at which to add additional SCA, and the amount of SCA to add, becomes a guessing game.

SCA manufacturers have begun to help with some of these problems. One way to reduce variability is to use coolant filters equipped with multiple doses of SCA. These filters utilize a sacrificial membrane to add SCA to the coolant as needed. The filters sense the SCA depletion and add the correct SCA dosage at the correct time. Although these filters address SCA depletion, they do not solve the problems associated with initial fill and top off.

For these reasons Old World Industries has introduced Fleet Charge Antifreeze. Fleet Charge antifreeze is a universal formula, low silicate antifreeze that has been pre-charged with a high quality SCA. When initial filling with Fleet Charge antifreeze there is no need to add additional SCA. When topping off a leaking system with Fleet Charge antifreeze, there is no need to compensate for SCA dilution. Use of Fleet Charge antifreeze with a high quality SCA filter greatly reduces the variability often found in heavy duty cooling systems.

Reduced variability is not the only advantage in using Fleet Charge antifreeze. Fleet Charge antifreeze incorporates state of the art corrosion and cavitation inhibitors along with anti-scale additives. For these reasons Fleet Charge antifreeze does not require dilution with DI water (although we always recommend using the highest quality water that is available). Fleet Charge antifreeze is a phosphate free universal formulation that meets all heavy duty and automobile conventional antifreeze specifications. Therefore Fleet Charge antifreeze is also well suited for use in automobiles and light service trucks. This makes it possible for operators of mixed fleets to stock only one antifreeze. Fleet Charge antifreeze stands out from its competitors due to its unsurpassed performance, but it also stands out due to its unique “pink” colour.

To be used in demanding heavy duty operations conventional antifreezes require the addition of SCAs. Due to inhibitor depletion and coolant leakage it is difficult to maintain the proper level of SCA. Using Fleet Charge antifreeze and a high quality SCA filter greatly simplifies this situation. To achieve the highest level of performance, always use Fleet Charge or Fleet Charge/PG antifreezes in heavy duty situations.



Fleet Charge Antifreeze is pre-charged with a high quality SCA.