

Engineering Bulletin

Marine Gasoline Spin-on Filters with Clear Bowls

Gasoline with Ethanol Compatibility

EB00033 Rev - (June 2015)



Parker Racor gasoline spin-on filters with clear plastic collection bowls have helped protect engines for over 30 years. During that time, gasoline formulations changed, and Racor changed bowl material formulations as well to stay compatible. The most notable recent change to gasoline was the addition of 10% ethanol, or E10. Racor has performed extensive testing using the new E10 fuel and found the current bowls retained clarity and stability, after prolonged exposure. However, it was found that ethanol concentration exceeding 10% caused adverse material changes; including loss of clarity, crazing, and shrinkage, eventually causing the bowl to separate from the filter.

In addition to high ethanol concentrations, other factors such as age, temperature, ultraviolet light, and various fuel additives may negatively impact clear filter bowls.



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If you are using any products listed in this bulletin, it is important to routinely inspect for not only water, but haze, discoloration, and deformation of any kind. A filter bowl should last for many years, but bowl replacement is necessary when signs of material breakdown are observed. For example, bowls manufactured before the availability of E10 gasoline (those without a "PUR or Z" mark) should be replaced.

Product Guide

Part Number	Replacement Bowl #
B32013	RK 30475
B32014	RK 30475
320R-RAC-01	RK 30475
490R-RAC-01	RK 30475
660R-RAC-01	RK 30475
RK30475	RK 30475

See the next page for what to look for and what action to take.



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What to look for:

	COLOR	MARKS
REPLACE		 <p>Old clear bowls will NOT have Z or PUR on the bottom of the bowl.</p>
CHECK	<p>New clear bowls will have yellow tint and PUR or Z marks. They are compatible with E10 Gasoline.</p> 	

What to do:

Blue bowl	Purchase new bowl immediately.
Clear/yellow tinted bowl	Check the bottom of the bowl for Z or PUR. If not found, Purchase new bowl immediately.
Hazing	Purchase new bowl immediately.
Cracking	Purchase new bowl immediately.
Bowl is loose/unable to tighten	Purchase new bowl immediately.
Bowl is leaking	Purchase new bowl immediately.



(Examples of Hazy Bowls)



Warning! Improper selection or failure to inspect and replace if needed or improper use of the products and or systems described herein or related items can cause death, personal injury and property damage.

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