

Tech Tips - Efficiency & Microns

FILTER EFFICIENCIES AND MICRON RATINGS

- Newer engines typically require finer filtration of contaminants to ensure long life of critical, expensive engine components.
- Different filters may be considered to be rated at 10 microns, however, one may remove a greater percentage of those 10 micron sized particles of contaminant, thus the filters are not considered equal in performance.
- For a micron rating to be useful, you must know the filter's removal efficiency of a specific particle size.
- The most important term used in comparing filters is the "absolute" rating of the filter in question. How efficiently, at a given particle size, can the filter perform, is the real question.
- Be sure you are comparing absolute ratings of filters – absolute would be any percentage higher than 98.7% of a known particle size being removed.

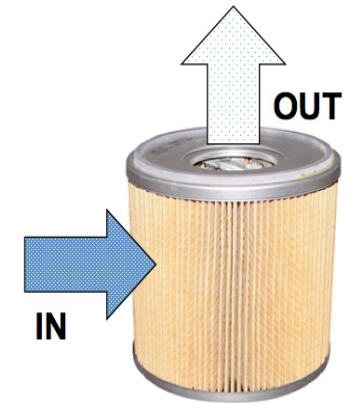
EFFICIENCY AND CAPACITY

Efficiency

The filter's ability to remove contaminant. Measured as percentage (%)

Capacity

The amount a filter can hold before reaching its maximum restriction. Measured as weight (grams)



CRITICAL WEAR PARTICLE SIZE

Measurements are in Microns – a standard unit of measure

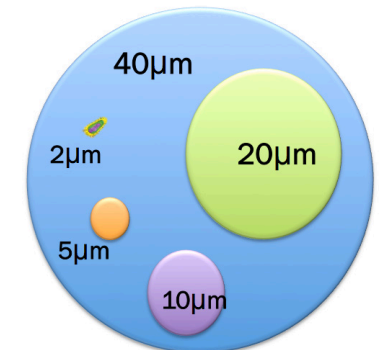
Average micron protection needed:

Hydraulic 3-30 μm

Lube 5-25 μm

Fuel Primary (protecting pumps) 15-20 μm

Fuel Secondary (protecting injectors) 2-5 μm



Cross section of a human hair
40 microns

Carquest provides single source coverage for on-highway and off-highway fleets. Carquest filters are designed and manufactured by Baldwin Filters, America's leading heavy duty filter company for over 80 years.

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