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 filters 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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