**Hastings’ uncompromising quality**

Since 1944, Hastings Premium Filters has been serving the automotive and commercial markets with quality filter products. In 1995, Hastings became a part of the CLARCOR group, which has enabled the company to share innovative ideas and technologies with its sister companies and to grow as a provider of filtration products.

Hastings delivers superior coverage for engine filtration needs by producing air, lube, fuel, coolant, hydraulic and transmission filters, as well as crankcase breathers. With over 3,800 part numbers, Hastings can meet your filter needs.

The practice of Total Quality Management and Quality Control Systems is evident throughout the entire Hastings organization. Hastings’ ISO 9001:2008 certification is another indicator that Hastings Premium Filters is serious about quality.

### Hastings’ filters offer protection

As modern, high-performance engines have evolved, so have the requirements for more sophisticated oil filters. While filters play a “passive” role in engine protection, they must work with the lubricating oil to keep engines protected and clean.

Modern oils perform vital functions in protecting engines, especially in heavy-duty situations such as trucking, construction, mining and agriculture. Lubricating oil acts to reduce friction and wear, cool engine parts, seal combustion chambers, clean engine components and inhibit corrosion. These functions are carried out by special additives in the oil, which complement the action of the oil itself. The protective action of the lubricating oil and its additives are supported and balanced by the work of the lube filter.

Lube filters have the sole purpose of keeping damaging contaminants away from sensitive engine parts. Lube filters trap oil contaminants in two ways:

- Some particles adhere to the filter media as the oil flows through the filter. Such particles attach themselves to the media surface without plugging up the media pores.

- Other particles are trapped in the filter media by the pressure of the oil as it flows through the filter. As the oil changes direction in its path through the filter, particles are driven, or impinged, into the media. Ideally, most of these particles are trapped in the outer portion of the media, leaving the inner media surfaces open to continue catching particles that slip through. Eventually, however, media pores will fill up and the filter will begin to lose its effectiveness and will need to be replaced.
Protecting your engine
As engine power has increased, so have bearing loads, engine RPMs and operating temperatures.

Hastings filters are designed to withstand the rigorous use of today’s equipment. From the baseplate to the all-metal housing, Hastings engineers examine all aspects of every filter. Three factors determine the effectiveness of a lube filter in protecting an engine.

- **Efficiency** — The filter’s ability to trap contaminants within the range of sizes most likely to cause engine wear and damage. This means filtering out those particles between 5 and 20 microns.

- **Capacity** — The amount of contaminants the filter media can hold before the pores begin to plug and interrupt proper oil flow through the filter.

- **Service Life** — The length of time the filter can successfully perform its function of trapping and holding contaminants. Service life is dependent upon the capacity and efficiency of the lube filter.

Hastings Premium Filters offers more than 400 lube filters for most automotive and heavy-duty applications.

Maximum performance
Hastings Premium Filters designs and manufactures lube filters to meet or exceed the original equipment specifications established by engine and equipment manufacturers. To insure the highest quality product, we test our filters according to SAE HS806 test procedures – the industry standard for lube filtration.

SAE HS806 testing shows that Hastings lube filters meet or exceed minimum standards for efficiency and capacity set by the manufacturer. The following product comparisons illustrate Hastings’ superior performance.

**Contaminant Removal Efficiency**

<table>
<thead>
<tr>
<th>Hastings LF115</th>
<th>FL1A</th>
</tr>
</thead>
<tbody>
<tr>
<td>87.5%</td>
<td>82.5%</td>
</tr>
</tbody>
</table>

**Contaminant Holding Capacity**

<table>
<thead>
<tr>
<th>Hastings LF115</th>
<th>10.5g</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL1A</td>
<td>15.8g</td>
</tr>
</tbody>
</table>

SAE HS806 Test: Flow Rate 3 gpm, ISO Fine Test Dust, 180°F, Termination at 5 psid

- **Steel Coil Spring** keeps its shape, maintaining a positive load pressure on the adapter seal and element.
- **Improved Cellulose Media,** with increased pleat depth, allows greater contaminant holding capacity and increased efficiency.
- **Louvered Center Tube** adds strength to resist pressure surges and maximizes flow through.
- **All-Metal End Caps** maximize filter life with increased stability and structural strength.
- **By-Pass Valve** allows the oil to bypass the filter in cold start or in highly restrictive conditions.
- **Positive Anti-Drainback Valve** keeps oil in the filter, preventing “engine knock” and unnecessary engine wear.
- **Heavy-Duty Baseplate** is joined to the can with a double-rolled, tuck lock seam to resist leakage due to high pressure and vibration.
- **Nitrile Gasket** withstands extreme temperatures and provides a consistent seal, preventing leaks.