Venturi™ Combo Lube Filter
Premium Protection & Performance for Today's Engines

Stacked Disc ByPass Media
Stacked Disc media allows for unmatched contaminant capacity:
- 3-4x more capacity than full flow only and competitive ‘combo’ filters
- Up to 5x more dust capacity than occurs in a standard service interval

_strataPore™ Full Flow Media_
- Provides optimal level of contaminant removal for maximum protection
- Maintains efficiency and durability over filter life for Extended Service Intervals
- Allows maximum flow during cold start without compromise to engine protection

Patented Venturi Nozzle
- The Venturi Nozzle assures the maximum cold start oil flow – protecting valve train engine components such as cam lobes, cam followers and valve guides
- The Venturi Nozzle helps oil flow through the high capacity stacked disc media – proven to remove wear-causing sludge

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**Grams of Contaminant Captured**

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>Conventional Full Flow Filter</th>
<th>Venturi Combo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust</td>
<td>100</td>
<td>200</td>
</tr>
<tr>
<td>Sludge</td>
<td>200</td>
<td>300</td>
</tr>
</tbody>
</table>

...Actual dust contaminant in a standard service interval (4-12g)

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**Percent Wear (with Full Flow as Baseline)**

<table>
<thead>
<tr>
<th>Component</th>
<th>FullFlow with ByPass</th>
<th>Venturi Combo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Conn Rod Bearing Shell</td>
<td>30% Less Wear</td>
<td>63% Less Wear</td>
</tr>
<tr>
<td>Lower Conn Rod Bearing Shell</td>
<td>49% Less Wear</td>
<td>64% Less Wear</td>
</tr>
<tr>
<td>Upper Main Rod Bearing Shell</td>
<td>63% Less Wear</td>
<td>49% Less Wear</td>
</tr>
<tr>
<td>Lower Main Rod Bearing Shell</td>
<td>64% Less Wear</td>
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</table>
Sludge – Not Dust

The Venturi passes the required M11 High Soot Test, also recognized by API, proving genuine contaminant capacity – unlike competitors’ filters which are only tested for dust capacity. Dust capacity alone is irrelevant in working environment lube systems.

Reliability

In addition to genuine testing, each filter is designed & tested using a battery of filtration industry test methods including ISO 4548-12, SAE J1858, SAE HS-J806 and ISO 2942.

Sludge Control

The Venturi includes bypass filtration as required by OEM specs ensuring ONLY clean oil reaches the engine components. Using the unique internal flow achieved with the Venturi nozzle, the built-in stacked disc bypass media captures high amounts of sludge thus allowing the oil to continue being filtered through the full flow section without plugging.

Cold Start Protection

The Venturi is tested using specified cold start conditions ensuring that it provides protection to vital engine parts during cold starts.