Centrifugal Lube Oil Cleaners
For removal of harmful dirt from engine oil

Automotive Application
TATA
ASHOK LEYLAND
EICHER
AMW
MAN
VOLVO
MAHINDRA NAVISTAR
HINO
FORCE MOTORS

Benefits to the end users
♦ No replacement element
♦ Extended lube oil drain interval
♦ Enhanced engine life
♦ Finest filtration (5 micron & below)
♦ Increased oil filter life
♦ One time investment

MAK CI 4 Plus
Recommended for use in high performance diesel engines including the latest low emission engines fitted with EGR technology as well as Turbocharged / naturally aspirated diesel engines, both on-highway and off-highway, running on low sulfur diesel or conventional high sulfur diesel fuel.
♦ USP- MAK CI-4 Plus has been successfully field tested for 1 lakh km in Hino Engine (185 BHP, Turbocharged, Centrifugal filter) fitted buses at VRL Logistics.
♦ Certifying Party: VRL Logistics

Largest installation base in India with 5 OEMs
(Kirloskar, Greaves, Mahindra, BEML and Cummins) using our product
Centrifugal Lube Oil Cleaner
Working Principle

Centrifugal Lube Oil Cleaner operates on the Hero turbine principle.

Oil enters the centrifuge under pressure and passes into the rotor through hollow rotor shaft. The oil pressure and flow is converted in rotational energy as the oil escapes through the jets, producing speed to 6000 RPM and above. The resultant centrifugal force removes dirt from the engine oil depositing it on the inner wall of rotor in a dense cake form. Clean oil drains back directly to the engine oil sump by gravity.

“Oil analysis results have shown the centrifuge has maintained levels of soot, insolubles, viscosity and wear metals within the manufacturers’ specifications over the previous drain intervals and beyond, which in some instances has doubled the oil drain interval on the emission complaint engines.”

Centrifugal Lube Oil Cleaner acts as
“Engine Conditioning System”

### SELECTION CHART

<table>
<thead>
<tr>
<th>Centrifuge Model</th>
<th>Nominal Flow Rate</th>
<th>Dirt Holding Capacity</th>
<th>Engine Oil Sump Capacity</th>
<th>Engine Models</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC 10</td>
<td>110 LPH</td>
<td>75 gms</td>
<td>5-14 ltrs.</td>
<td>Mahindra, TATA 3L, TATA 497, Tempo Traveller, IVECO, Ecomet etc. 4 cylinder engines</td>
</tr>
<tr>
<td>LC 20</td>
<td>180 LPH</td>
<td>150 gms</td>
<td>15-30 ltrs.</td>
<td>TATA 697, TATA Cummins 6 BT, Cummins 24 Valve, Eicher, Ashok Leyland, AMW, Mahindra Navistar, MAN, Volvo, Renault, Hino, International etc. engines</td>
</tr>
</tbody>
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Bhagyashree Accessories Pvt. Ltd.,
S. No. 44/32, Narhe Industrial Area, Pune 411041 (MS)
Telefax: 020 - 6470 0167 Email: marketing@baplpune.in / sales@baplpune.in
URL: www.centrifugalubeoilcleaner.com

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