AJAX
Past – Present - Future

January 2008
Speaker
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AJ AX
The Past

1960’s
Ajax Patented Hydraulic Fuel Injection
White Hat™ Standard pre-engineered packages

1970’s
Portable skid designs allowing ease of transportation

1980s
Low emissions technology using Cooper Bessemer CleanBurn™ prechambers
Variable Volume Pockets made standard
Hydraulic Fuel Injection
Ajax LE CleanBurn™
Head and prechamber
The Present

Ajax is a single source vendor for complete packages occupying 160,000 square feet of manufacturing, office and R and D space in Oklahoma City and holds certifications for;

- ISO 9000-2000
- ASME Section VIII
- Chinese Pressure Vessels
- CE Marked Engines and Compressors
- CE Marked Compressor Packages
- PED Stamped Pressure Vessels
Improvements
1990’s to the present

440 Speed Uprate 10 % more BHP per power cylinder
AJAX Patented Tilt Muffler
Integral Concrete Skid
Cartridge Fuel Valve
IGTB Electronic Governors
Modular Fuel Header
Expansion Chambers to lower Nox
First 2 cycle CO catalyst
1993

Ajax increases speed to 440 RPM

<table>
<thead>
<tr>
<th>Model</th>
<th>DPC</th>
<th>BHP</th>
</tr>
</thead>
<tbody>
<tr>
<td>140LE</td>
<td>134</td>
<td></td>
</tr>
<tr>
<td>180LE</td>
<td>173</td>
<td></td>
</tr>
<tr>
<td>280LE</td>
<td>269</td>
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</tr>
<tr>
<td>360LE</td>
<td>346</td>
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<tr>
<td>540LE</td>
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<td>720LE</td>
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<tr>
<td>2201LE</td>
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<td>2801LE</td>
<td>192</td>
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<tr>
<td>2202LE</td>
<td>296</td>
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<tr>
<td>2802LE</td>
<td>384</td>
<td></td>
</tr>
<tr>
<td>2803LE</td>
<td>600</td>
<td></td>
</tr>
<tr>
<td>2804LE</td>
<td>800</td>
<td></td>
</tr>
</tbody>
</table>
Ajax Patented IGTB® Governor
Ajax Patented® Tilt Muffler with integral concrete base
one of 118 sold and in wellhead service in Coal Bed
Methane application
AJAX Cartridge Fuel Valve

- Uses existing upper hydraulic assembly
- Uses current spring and valve keepers
- Simple Threaded Installation
- Standard and Low Emissions Engines
- H2S Compatible
- Eliminates Field rework
- Reduces Downtime Increases Revenue
- Replaceable seat
Ajax Patented® 2 Cycle Converter

- Oil Carry Over
- Low Exhaust Temperature
- Occasional Firing into Exhaust
- Pressure Pulsations
## Converter Performance Results

### Expected & Guaranteed Emissions Data

<table>
<thead>
<tr>
<th></th>
<th>Standard 2800LE Series Engine</th>
<th>Initial Expected Performance with Converter</th>
<th>Performance Guarantee with Converter (After 6 Months)</th>
<th>Expected Performance (After One Year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated BHP per cylinder</td>
<td>200</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>NO\textsubscript{x} (gm/BHP-hr)</td>
<td>1.9</td>
<td>1.8</td>
<td>2.0</td>
<td>1.8</td>
</tr>
<tr>
<td>CO (gm/BHP-hr)</td>
<td>1.2</td>
<td>0.05</td>
<td>0.40</td>
<td>0.15</td>
</tr>
<tr>
<td>NMHC (gm/BHP-hr)</td>
<td>1.2</td>
<td>0.40</td>
<td>0.60</td>
<td>0.55</td>
</tr>
<tr>
<td>NMNEHC (gm/BHP-hr)</td>
<td>0.5</td>
<td>0.20</td>
<td>0.30</td>
<td>0.25</td>
</tr>
<tr>
<td>H\textsubscript{2}CO (gm/BHP-hr)</td>
<td>0.30</td>
<td>0.02</td>
<td>0.15</td>
<td>0.05</td>
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<tr>
<td>Exhaust Flow Per Cylinder (ACFM)</td>
<td>1530</td>
<td>1555</td>
<td>1555</td>
<td>1555</td>
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</tbody>
</table>
EXHAUST EXPANSION CHAMBER

Object –
Lower NOx levels from 2.0 to < 1.0gms/hp-hr at 100 deg ambient without adding controls to the system or taking additional engine deration.

Results –
Achieved emissions levels of < 1.0 while actually increasing available hp. Allowed permitting of DPC-2802LE in California

DPC-2802LE
Powder River Basin
Wyoming
The Future

Cameron continues to invest in the future of AJAX, both in the facility with $5.2 million scheduled in the next 18 months, and products with the introduction of the DPC-3400LE series in 2008.
The CL-124 Vessel Cutting Machine will be delivered to the OKC CS facility on Wednesday, January 23rd.
## 3400LE Engine

<table>
<thead>
<tr>
<th></th>
<th>2801LE</th>
<th>3401LE</th>
<th>2802LE</th>
<th>3402LE</th>
<th>2803LE</th>
<th>3403LE</th>
<th>2804LE</th>
<th>3404LE</th>
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</thead>
<tbody>
<tr>
<td>Rated RPM</td>
<td>440</td>
<td>440</td>
<td>440</td>
<td>440</td>
<td>440</td>
<td>440</td>
<td>440</td>
<td>440</td>
</tr>
<tr>
<td>Rated BHP @100 F</td>
<td>192</td>
<td>232</td>
<td>384</td>
<td>465</td>
<td>600</td>
<td>726</td>
<td>800</td>
<td>970</td>
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<tr>
<td>Bore &amp; Stroke (in)</td>
<td>15 x 16</td>
<td>16.5 x 16</td>
<td>15 x 16</td>
<td>16.5 x 16</td>
<td>15 x 16</td>
<td>16.5 x 16</td>
<td>15 x 16</td>
<td>16.5 x 16</td>
</tr>
</tbody>
</table>
AJAX
Your Father’s Past
Your Future
Stayed Tuned for Future Developments!
Thank You for Your Time

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