GW4 VARIABLE SPEED ENGINE
GW4 - 22
Power range: 40 - 48 kW; 53.6 - 67.0 bhp
Variable speed: 1500 - 2200 r/min

NATURALLY ASPIRATED HEAVY DUTY VARIABLE SPEED DIESEL ENGINE

SPECIAL ATTRIBUTES
- 250-hour service intervals
- continuous operation in ambient temperatures up to 50°C (122°F)
- cold start down to −10°C (14°F)

BASIC ENGINE CHARACTERISTICS
- four cylinders
- diesel fuelled
- direct injection
- liquid cooled
- naturally aspirated

DESIGN FEATURES AND EQUIPMENT
- standard oil and fuel filters
- 12V electric start (optional 24 V)
- anticlockwise rotation, looking on flywheel end
- SAE 10” and 11.5” flywheel
- SAE3 flywheel housing
- radiator with fan guard
- cast-iron crankcase
- self-vent fuel system
- inline fuel injection pump
- flywheel with ring gear
- air cleaner
- water temperature sender
- oil pressure sender
- spin-on lubricating-oil filter
- fuel filter/agglomerator
- inlet and exhaust manifolds
- operators’ handbook

POWER OUTPUTS TO ISO 3046

<table>
<thead>
<tr>
<th>r/min</th>
<th>1500</th>
<th>1800</th>
<th>2200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable Speed</td>
<td>Fuel Stop Power kW</td>
<td>40</td>
<td>42</td>
</tr>
<tr>
<td>bhp</td>
<td>53.6</td>
<td>56.3</td>
<td>67.0</td>
</tr>
</tbody>
</table>

RATING DEFINITIONS TO ISO 3046
1. Variable speed: fuel stop power, continuous power (IFN)
The maximum power in kW which an engine is capable of delivering continuously at stated crankshaft speed, with the fuel limited so that the fuel stop power cannot be exceeded.
The output ratings apply only to fully run-in engines without radiator, fan or other power absorbing accessories.
A comprehensive range of options allows you to select a specification that matches your requirements. Please ask your Lister Petter distributor (see panel below right).
GWT4 VARIABLE SPEED ENGINE

GWT4 - 22
Power range: 60 - 70 kW; 80.4 - 93.8 bhp
Variable speed: 1500 - 2200 r/min

TURBOCHARGED HEAVY DUTY VARIABLE SPEED DIESEL ENGINE

SPECIAL ATTRIBUTES
- 250-hour service intervals
- continuous operation in ambient temperatures up to 50°C (122°F)
- cold start down to −10°C (14°F)

BASIC ENGINE CHARACTERISTICS
- four cylinders
- diesel fuelled
- direct injection
- liquid cooled
- turbocharged

DESIGN FEATURES AND EQUIPMENT
- standard oil and fuel filters
- 12V electric start (optional 24V)
- anticlockwise rotation, looking on flywheel end
- SAE 10" and 11.5" flywheel
- SAE3 flywheel housing
- radiator with fan guard
- cast-iron crankcase
- self-vent fuel system
- inline fuel injection pump
- flywheel with ring gear
- air cleaner
- water temperature sender
- oil pressure sender
- spin-on lubricating-oil filter
- fuel filter/agglomerator
- inlet and exhaust manifolds
- operators’ handbook

POWER OUTPUTS TO ISO 3046

<table>
<thead>
<tr>
<th></th>
<th>kW</th>
<th>65</th>
<th>80.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable Speed</td>
<td>kW</td>
<td>60</td>
<td>65</td>
</tr>
<tr>
<td>Fuel Stop Power</td>
<td>bhp</td>
<td>80.4</td>
<td>82.1</td>
</tr>
</tbody>
</table>

RATING DEFINITIONS TO ISO 3046
1. Variable speed: fuel stop power, continuous power (IFN)
   The maximum power in kW which an engine is capable of delivering continuously at stated crankshaft speed, with the fuel limited so that the fuel stop power cannot be exceeded.
   The output ratings apply only to fully run-in engines without radiator, fan or other power absorbing accessories.
A comprehensive range of options allows you to select a specification that matches your requirements. Please ask your Lister Petter distributor (see panel below right).

Distributor’s Address

Lister Petter have made efforts to ensure that the information in this data sheet is accurate but reserve the right to amend specifications and information without notice and without obligation or liability.
GWT6-2A VARIABLE SPEED ENGINE

GWT6-2A - 22

Power range: 75 - 92 kW; 100.5 - 123 bhp
Variable speed: 1500 - 2200 r/min

TURBOCHARGED HEAVY DUTY VARIABLE SPEED DIESEL ENGINE

SPECIAL ATTRIBUTES
- 250-hour service intervals
- Continuous operation in ambient temperatures up to 50°C (122°F)
- Cold start down to -10°C (-14°F)

BASIC ENGINE CHARACTERISTICS
- Six cylinders
- Diesel fuelled
- Direct injection
- Liquid cooled
- Turbocharged

DESIGN FEATURES AND EQUIPMENT
- Standard oil and fuel filters
- 12V electric start (optional 24V)
- Anti clockwise rotation, looking on the flywheel
- SAE 10" and 11.5" flywheel
- SAE 3 flywheel housing
- Radiator with fan guard
- Cast-iron crankcase
- Self-vent fuel system
- Inline fuel injection pump
- Flywheel with ring gear
- Air cleaner
- Water temperature sender
- Oil pressure sender
- Spin-on lubricating-oil filter
- Fuel filter/agglomerator
- Inlet and exhaust manifolds
- Operators' handbook

POWER OUTPUTS TO ISO 3046

<table>
<thead>
<tr>
<th>Variable Speed</th>
<th>kW</th>
<th>1500</th>
<th>1800</th>
<th>2200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Stop Power</td>
<td></td>
<td>7.5</td>
<td>8.7</td>
<td>9.2</td>
</tr>
<tr>
<td>bhp</td>
<td></td>
<td>100.5</td>
<td>116.6</td>
<td>123.3</td>
</tr>
</tbody>
</table>

RATING DEFINITIONS TO ISO 3046

1. Variable speed: fuel stop power, continuous power (IFN)
   The maximum power in kW which an engine is capable of delivering continuously at stated crankshaft speed, with the fuel limited so that the fuel stop power cannot be exceeded.
   The output ratings apply only to fully run-in engines without radiator, fan or other power absorbing accessories.
A comprehensive range of options allows you to select a specification that matches your requirements. Please ask your Lister Petter distributor (see panel below right).
GWTA6 VARIABLE SPEED ENGINE

GWTA6 - 22
Power range: 102 - 122 kW; 138 - 164 bhp
Variable speed: 1500 - 2200 r/min

TURBOCHARGED / INTERCOOLED HEAVY DUTY VARIABLE SPEED DIESEL ENGINE

SPECIAL ATTRIBUTES
- 250-hour service intervals
- continuous operation in ambient temperatures up to 50°C (122°F)
- cold start down to −10°C (14°F)

BASIC ENGINE CHARACTERISTICS
- diesel fuelled
- six cylinders
- direct injection
- liquid cooled
- turbocharged and intercooled

DESIGN FEATURES AND EQUIPMENT
- standard oil and fuel filters
- 12V electric start (optional 24V)
- anti clockwise rotation, looking on flywheel
- SAE 10” and 11.5” flywheel
- SAE3 flywheel housing
- radiator with fan guard
- cast-iron crankcase
- self-vent fuel system
- inline fuel injection pump
- flywheel with ring gear
- air cleaner
- water temperature sender
- oil pressure sender
- spin-on lubricating-oil filter
- fuel filter/agglomerator
- inlet and exhaust manifolds
- operators’ handbook

POWER OUTPUTS TO ISO 3046

<table>
<thead>
<tr>
<th>Variable Speed</th>
<th>kW</th>
<th>1500</th>
<th>1800</th>
<th>2200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Stop Power</td>
<td>bhp</td>
<td>138</td>
<td>153</td>
<td>164</td>
</tr>
</tbody>
</table>

RATING DEFINITIONS TO ISO 3046

1. Variable speed: fuel stop power, continuous power (IFN)
The maximum power in kW which an engine is capable of delivering continuously at stated crankshaft speed, with the fuel limited so that the fuel stop power cannot be exceeded.
The output ratings apply only to fully run-in engines without radiator, fan or other power absorbing accessories.
### TORQUE TO ISO 3046

<table>
<thead>
<tr>
<th>Variable Speed Torque</th>
<th>1500</th>
<th>1800</th>
<th>2200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Stop Torque</td>
<td>Nm</td>
<td>lbf ft</td>
<td></td>
</tr>
<tr>
<td></td>
<td>645</td>
<td>4/8</td>
<td></td>
</tr>
<tr>
<td></td>
<td>601</td>
<td>44b</td>
<td></td>
</tr>
<tr>
<td></td>
<td>526</td>
<td>390</td>
<td></td>
</tr>
</tbody>
</table>

### TECHNICAL DATA

<table>
<thead>
<tr>
<th>Model</th>
<th>GWTA6 - 22</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Fireing order (number 1 cylinder is at gear end)</td>
<td>1 5 3 6 4 2</td>
</tr>
<tr>
<td>Type of fuel injection</td>
<td>Direct</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged and Intercooled</td>
</tr>
<tr>
<td>Direction of rotation, looking on flywheel</td>
<td>Anti clockwise</td>
</tr>
<tr>
<td>Cylinder bore</td>
<td>mm 100</td>
</tr>
<tr>
<td>Stroke</td>
<td>mm 12</td>
</tr>
<tr>
<td>Total cylinder capacity</td>
<td>litre 5.99</td>
</tr>
<tr>
<td>Comression ratio</td>
<td>17:5:1</td>
</tr>
<tr>
<td>Rated maximum full-load speed (r/min)</td>
<td>2200</td>
</tr>
<tr>
<td>Mean piston speed</td>
<td>m/sec 9.3</td>
</tr>
<tr>
<td>Oil consumption</td>
<td>Maximum 0.2% of fuel consumption</td>
</tr>
</tbody>
</table>

### APPROXIMATE DIMENSIONS AND WEIGHT

| Length (A) | mm 1610 |
| Length (B) | in 63.4 |
| Height (B) | mm 1064 |
| Height (B) | in 41.9 |
| Width (C)  | mm 800  |
| Width (C)  | in 31 b |
| Dry Weight | kg 160 |
| Dry Weight | lb 16/4 |

A comprehensive range of options allows you to select a specification that matches your requirements. Please ask your Lister Petter distributor (see panel below right).

### FUEL CONSUMPTION

<table>
<thead>
<tr>
<th>Variable Speed</th>
<th>r/min</th>
<th>1500</th>
<th>1800</th>
<th>2200</th>
</tr>
</thead>
<tbody>
<tr>
<td>litre/hr</td>
<td></td>
<td>26.1</td>
<td>29.2</td>
<td>31.9</td>
</tr>
</tbody>
</table>

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