


Project: Diesel engine driven dewatering pumps

Reference Number: N/M


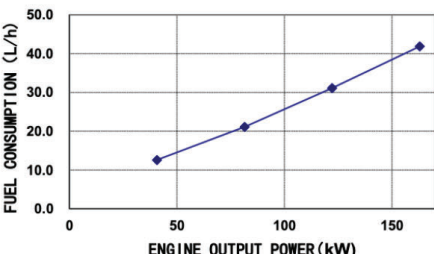
Qty.	Description																																										
1	<p>GZT-12 diesel engine driven dewatering pumps</p>  <p>Note: Product picture may differ from actual product, reference only.</p> <p>Product No: On request</p> <p>GZT self-priming pump are design for rugged and dependable solid handling application. The heavy duty and easy to maintain design provide economical and trouble free operation in handling solid-laden and slurries. The large volute design enable the pumps to reprime automatically after initial priming, without the need for suction or discharge check valves. Automatic repriming is even possible with the pump casing only partially filled with liquid and completely dry suction line.</p> <p>Complete unit consists of pump connect with diesel engine by coupling, instrumental panel, 10 hours Integrate oil tank, battery box with leads, heavy duty trailer.</p> <p>Liquid:</p> <table> <tr> <td>Pumped liquid</td><td>Water</td></tr> <tr> <td>Liquid temperature range:</td><td>0-40°C</td></tr> <tr> <td>Selected liquid temperature:</td><td>20°C</td></tr> <tr> <td>Density:</td><td>997 kg/m³</td></tr> </table> <p>Technical:</p> <table> <tr> <td>Flow to:</td><td>1000m³/h</td></tr> <tr> <td>Head to:</td><td>60m</td></tr> <tr> <td>Seal:</td><td>Mechanical seal</td></tr> <tr> <td>Solid handling size to:</td><td>76.2mm</td></tr> </table> <p>Materials:</p> <table> <tr> <td>Pump casing:</td><td>Cast iron</td></tr> <tr> <td>Cover plate:</td><td>Cast iron</td></tr> <tr> <td>Impeller:</td><td>Cast iron</td></tr> <tr> <td>Shaft:</td><td>4140 steel</td></tr> <tr> <td>Bearing:</td><td>NSK</td></tr> <tr> <td>Wear plate:</td><td>Hardened steel</td></tr> </table> <p>Installation:</p> <table> <tr> <td>Range of ambient temperature:</td><td>-15 .. 40 °C</td></tr> <tr> <td>Pump inlet:</td><td>300mm</td></tr> <tr> <td>Pump outlet:</td><td>300mm</td></tr> </table> <p>Diesel engine data:</p> <table> <tr> <td>Brand:</td><td>Cummins</td></tr> <tr> <td>Type:</td><td>6CTA8.3-P220 (Specially for pump use)</td></tr> <tr> <td>Power:</td><td>163KW</td></tr> <tr> <td>RPM:</td><td>1500 RPM</td></tr> </table>	Pumped liquid	Water	Liquid temperature range:	0-40°C	Selected liquid temperature:	20°C	Density:	997 kg/m³	Flow to:	1000m³/h	Head to:	60m	Seal:	Mechanical seal	Solid handling size to:	76.2mm	Pump casing:	Cast iron	Cover plate:	Cast iron	Impeller:	Cast iron	Shaft:	4140 steel	Bearing:	NSK	Wear plate:	Hardened steel	Range of ambient temperature:	-15 .. 40 °C	Pump inlet:	300mm	Pump outlet:	300mm	Brand:	Cummins	Type:	6CTA8.3-P220 (Specially for pump use)	Power:	163KW	RPM:	1500 RPM
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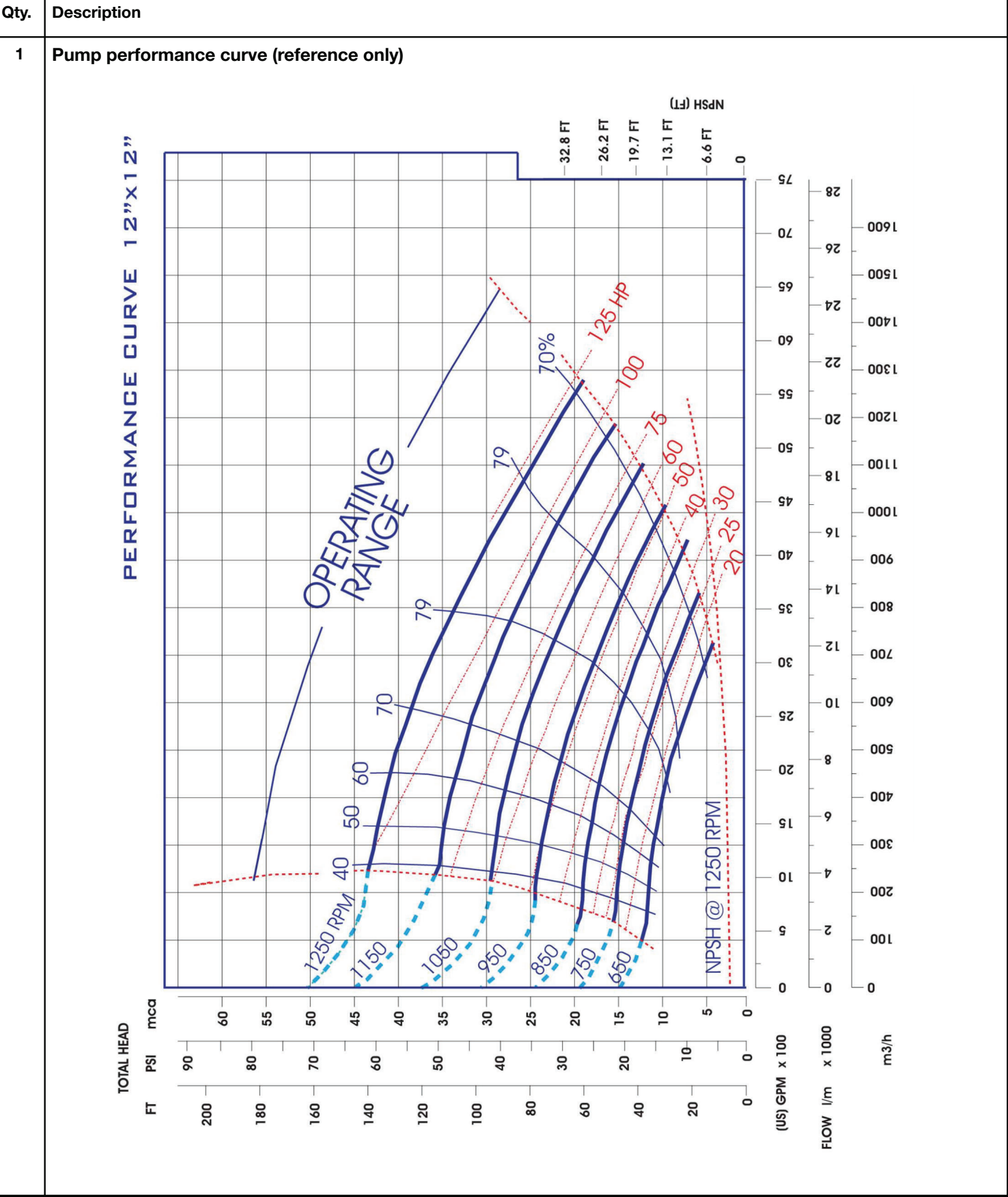
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Qty. **Description**

1 Diesel engine details

	Stationary Pump Engine Performance Data		6CTA8.3-P220		163 kW @ 1500 r/min	
	DONGFENG CUMMINS ENGINE Co.,LTD XiangYang, Hubei Province, China http://www.dcec.com.cn		FR95999		CPL Code CPL0399	Revision 2017/4/17
					Version 00	
Displacement: 8.3L			Aspiration: Turbocharged & Aftercooled			
Application: Stationary Pump			Fuel System: Mechanical Pump + Electronical Governor			
All data is based on the engine operating without air compressor,fan,generator,fan,optional equipment and driven components .						
All data is based on the engine operating with 3.7 kPa inlet air restriction , 10 kPa exhaust restriction						
Curves shown above represent gross engine performance capabilities obtained and corrected in accordance with GB/T18297 conditions of 99kPa baiometric press , 298K inlet air temperature , and 1kPa water vapor pressure .						
Performance curve						
1500rpm Engine performance data						
ENGINE OUTPUT POWER			FUEL CONSUMPTION			
%	kW	Ps	g/kW.h	L/h		
100	163	222	212	41.9		
75	122.25	166	210	31.1		
50	81.5	111	214	21.1		
25	40.75	55	255	12.6		
						
General Performance Data						
Low idle speed:			800±50		rpm	
Maximum no load speed:			1575±20		rpm	
Maximum overspeed capability(15sec max):			2900		rpm	
Maximum altitude limit for continious running:			1500		m	
* Above 1500m, power derated 4% per 300m						
Cold start capability(Sea Level without Load)						
Without start add device:			-12		℃	
With air intake preheating:			-35		℃	
Cold start capability(Sea Level with Load)*						
Max parasitic load at 0℃ @ 500r/min without Aid:			NA		N.m	
Max parasitic load at -15℃ @ 500r/min without Aid:			NA		N.m	
* The data measured at 101kPa atmospheric pressure, crank speed 120r/min, Engine use 5W40 lube oil and diesel refer to GB19147						
Performance data						
Parameter		Advertised Power				
Engine Speed(rpm)		1500				
Output Power(kW)		163				
Torque(N.m)		1038				
Inlet air flow(L/s)		189				
Charge air flow(kg/min)		880				
Exhaust gas flow(kg/min)		881				
Exhaust gas temperature(deg C)		536				
Heat rejection to coolant(kW)		83				
Radiator coolant flow(L/min)		198				
Heat rejection to charge air cooler(kW)		NA				
Turbo Comp.Outlet Pressure(kPa)		150				
Temperature(deg C)		155				
Fuel Consumption(kg/hr)		35				

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1	<p>Pump outline drawing</p> <p>EXTERNAL DIMENSIONS MILLIMETERS (INCHES)</p> <p>345.90 [13.62]</p> <p>121.40 [4.78]</p> <p>203.20 [8.00]</p> <p>508.00 [20.00]</p> <p>304.80 (12") SUCTION</p> <p>1621.50 [63.84]</p> <p>503.20 [19.01]</p> <p>1474.70 [58.06]</p> <p>971.50 [38.25]</p> <p>342.90 [13.50]</p> <p>101.60 [4.00]</p> <p>509.00 [20.00]</p> <p>1253.30 [49.30]</p> <p>MAINTAIN DISTANCE OF 18.4" (460 mm) TO REMOVE THE COVER</p>