GUZU MACHINERY

 Project: Self priming diesel dewatering pump
 Reference Number: N/M

 Qty.
 Description

2 GZT-10 self priming diesel dewatering pump



Note: Product picture may differ from actual product, reference only.

Product No: On request

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.

Complete unit consists of pump connect with diesel engine by coupling, instrumental panel, 10 hours Integrate oil tank, battary box with leads, heavy duty trailer.

Liquid:	
Pumped liquid	Water
Liquid temperature range:	0-40°C
Selected liquid temperature:	20°C
Density:	997 kg/m³
Technical:	
Flow to:	780m³/h
Head to:	50m
Seal:	Mechanical seal
Solid handling size to:	75mm
Materials:	
Pump casing:	Cast iron
Cover plate:	Cast iron
Impeller:	Ductile Iron
Shaft:	Cr steel
Bearing:	NSK
Wear plate:	Hardened steel
Installation:	
Range of ambient temperature:	-15 40 °C
Pump inlet:	250mm
Pump outlet:	250mm
Diesel engine data:	
Brand:	Cummins
Туре:	6BTAA5.9-P180(Specially for pump use)
Power:	132KW
RPM:	1500RPM

GUZU MACHINERY Project: Self priming diesel dewatering pump Reference Number: N/M Description Qty. 2 **Diesel engine datasheet:** Stationary Pump Engine Performance Data 6BTAA5.9-P180 132 kW @ 1800 r/min DONGFENG CUMMINS ENGINE Co., LTD XiangYang, Hubei Province, China CPL Code Revision Version DCFC FR95998 www.cumminspowerunits.com CPL3289 2017/4/17 00 Displacement: 5.9L 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 and with 13 kPa Inter-cooled implement differential pressure 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 40.0 35.0 30.0 ENGINE OUTPUT POWER FUEL CONSUMPTION 30.0 L/h kW g/kW.h % Ps NOI LdwnsNoo 10.0 100 132 180 208 33.3 75 135 24.8 99 207 50 66 90 214 17.1 5.0 Ē 0.0 33 45 252 25 10.1 0 20 40 60 80 100 120 140 ENGINE OUTPUT POWER (kW) **General Performance Data** 800±50 Low idle speed: rpm Maximum no load speed: 1890±20 rpm Maximum overspeed capability(15sec max): 2900 rpm 1500 Maximum altitude limit for continious running: m * Above 1500m, power derated 4% per 300m Cold start capability(Sea Level without Load) Without start add device: -12 °C With air intake preheating: -35 °C Cold start capability(Sea Level with Load)* Max parasitic load at 0°C @ 500r/min without Aid: NA N.m Max parasitic load at -15°C @ 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) 1800 132 Output Power(kW) Torque(N.m) 700 135 Inlet air flow(L/s) Charge air flow(kg/min) 628 Exhaust gas flow(kg/min) 628 540 Exhaust gas temperature(deg C) Heat rejection to coolant(kW) 63 Radiator coolant flow(L/min) 144

Heat rejection to charge air cooler(kW Turbo Comp.Outlet Pressure(kPa)

Temperature(deg C) Fuel Consumption(kg/hr) 22

145 150

28

GUZU MACHINERY Project: Self priming diesel dewatering pump Reference Number: N/M Qty. Description 2 Pump performance curve (TT) H29N 32.8 FT 26.2 FT 19.7 FT 13.1 FT 6.6 FT 0 Performance curve 10" x 10" ī I. Т T 1 and the second - 98 - 62 70% 08 320 -- 77 ιþ 5 12 - 92 325 e P 50 02 6١ - 00£ ۶٢ - 99 б - 972 L١ OPERATING RANGE 09 9١ - 092 55 S١ 75 --02 525 -14 - 09 13 2 - 002 - 97 15 40 - 92 l - 11 ;; 00 ٥٢ - 92 120 6 30 - 8 152ļ 50 ٠L - 92 ÷., 100 9 - 07 Ì G - 92 @1550 RPM. -91 7 ;;; - 09 3 ٠0L ; Tag a 2 - 92 HSH 1450 1350 1150 1050 - 9 850 750 1250 950 650 - 1 i L0 0 0 F TOTAL HEAD 160 140 120 00 80 09 40 20 0 x 10 (US)GPM x 10 x 10 m³/h 7 -02 - 09 50-40-10-30l/s PSI 20mca 0 5 FLOW 15 -20 45 40 35 30 25 20 10

