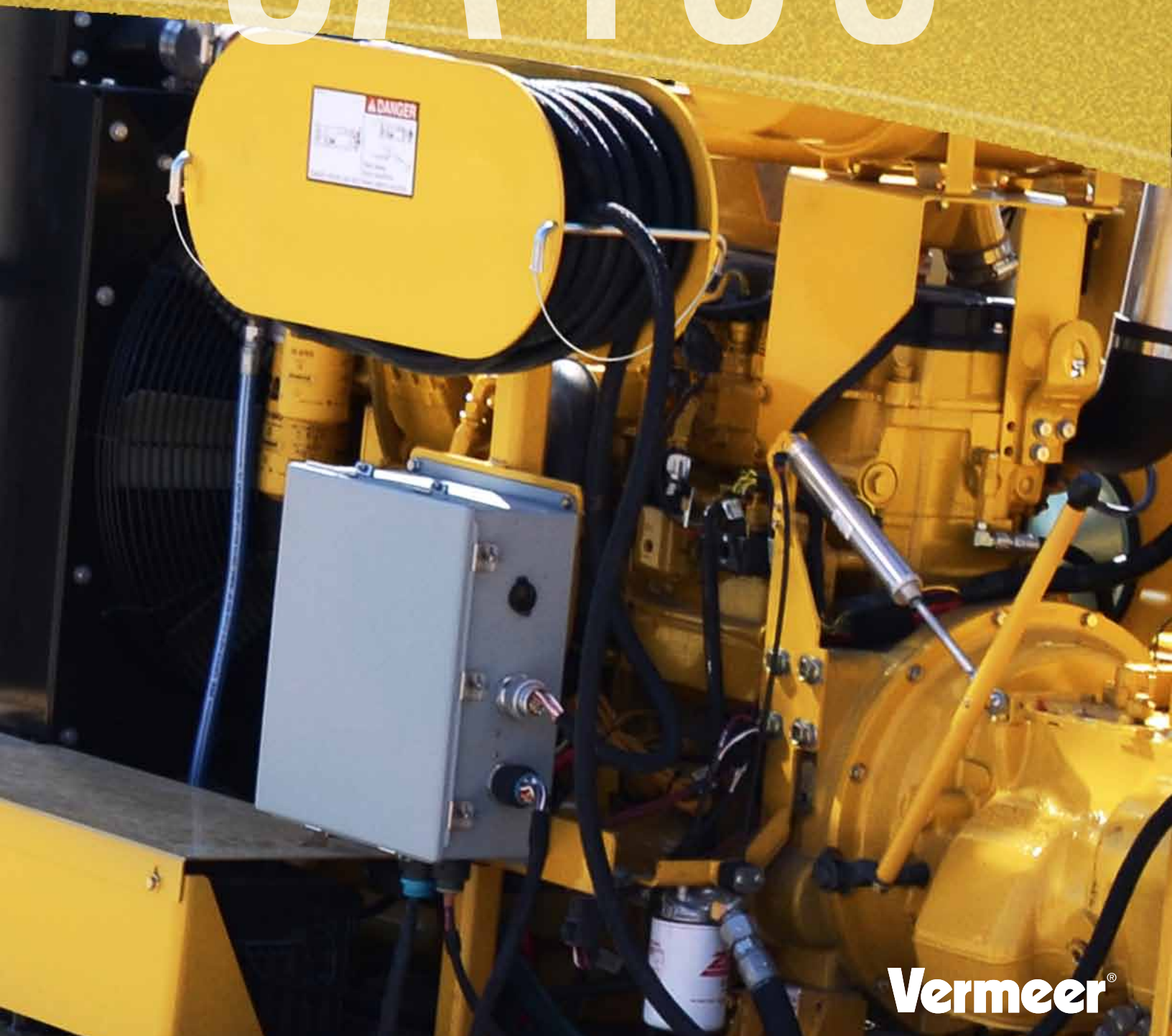


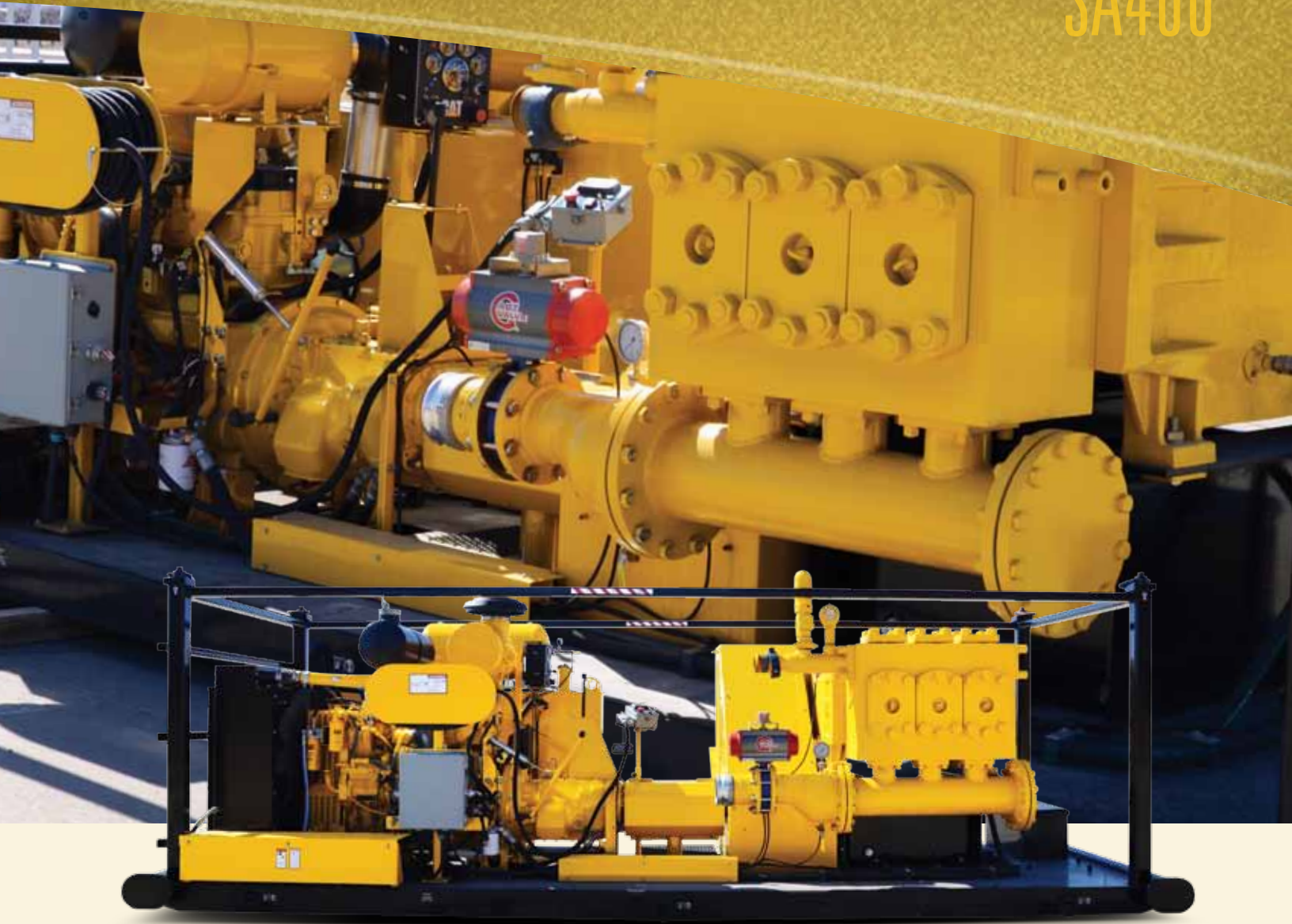
HIGH PRESSURE MUD PUMP

# SA400



**Vermeer**<sup>®</sup>

# SA400



**THIS MUD PUMP WILL DELIVER THE CONSISTENT FLOW OF DRILLING FLUID THAT IS VITAL TO HDD PIPELINE DRILLING PROJECTS.**



*Suction inlet valve suspends charged flow during drill rod makeup and breakout process, keeping excess drilling fluid from escaping as drill pipes separate.*



*The lubrication pump is driven off the auxiliary pad on the engine. It provides 55 psi (3.8 bar) of continuous crankshaft lubrication. The internal hydraulic reservoir has a capacity of 49 gal (185.5 L).*



*Clutch with continuous duty throw-out bearing allows for longer pump disengagement during drill rod makeup/breakout.*



*Lightweight shielding makes for easy maintenance. Each panel of SA400 shielding weighs less than 50 lb (22.7 kg), making maintenance a one-person task.*

**HIGH PRESSURE MUD PUMP**



A triplex piston pump produces up to 435.3 gpm (1647.8 L/min), providing a continuous flow of drilling fluid during drill operations.



*An electric centrifugal pump provides constant flow, keeping the pump running cool and leading to a longer life for both pistons and liners.*



*Remote pendant control allows operator to mount controls where it makes sense for them. The remote pendant control monitors mud rate and eliminates the need for stroke counter.*



*The integrated liner wash tank eliminates the need for additional water containers or electricity when running the pump.*



*An engine-mounted air compressor powered by the engine auxiliary pad has a 30 gal (113.6 L) tank and produces 26 cfm @ 120 psi (736.2 L/min @ 8.3 bar) flow. The system is equipped with a quick-connect adapter for pneumatic tools.*



## Specifications

### General Weights and Dimensions

Weight: 26,600 lb (12,065.6 kg)  
 Length: 19.1' (5.8 m)  
 Width: 91.1" (231.4 cm)  
 Height: 78" (198.1 cm)

### Controls

Onboard: Open control station  
 Remote: Tethered control box reaches  
 120' (36.6 m)

### Power Source

Power source description: Non-detachable,  
 onboard, open engine bay  
 Engine description: CAT C9 or C9.3 ACERT IOPU  
 EPA certification family: Tier 3 (EU Stage IIIA)  
 or Tier 4i (EU Stage IIIB)  
 Fuel type: Diesel  
 Rated power: 350 hp (257.4 kW)  
 Rated engine speed: 1800 rpm  
 Fuel tank capacity: 191 gal (723 L)  
 Electrical system: 24VDC

### Hydraulic Reservoir

Hydraulic reservoir description: Mud pump  
 power end (internal to mud pump)  
 Hydraulic reservoir capacity: 49 gal (185.5 L)

### Operational

Electronic control systems  
 Remote lockout: Yes

### Transmission System

Number of usable gears: 4  
 Clutch description: Eaton 15.5" (39.4 cm)  
 dual plate, spring-actuated with  
 pneumatic assist  
 Belt description: 8V 12-groove

### Fluid Pump System

Description: Standalone, open skid  
 High pressure pump  
 Pump description: Weatherford T425,  
 triplex piston pump  
 Piston diameter: 6" (15.2 cm)

Min flow at 100% efficiency: 78 gpm  
 (295.3 L/min)  
 Max flow at 100% efficiency: 435.5 gpm  
 (1647.8 L/min)  
 Relief valve setting: 1250 psi (86.2 bar)  
 Lubrication system (power end)  
 Power driver description: Engine aux pad  
 Lubrication system (fluid end)  
 Power driver description: 24VDC  
 Pump(s) description: Centrifugal pump

### Compressed Air System

Compressor description: Caterpillar  
 Compressor mounting type: Engine aux pad  
 Flow at max pressure: 26 cfm @ 120 psi  
 (736.2 L/min @ 8.3 bar)  
 Air tank volume: 30 gal (113.6 L)