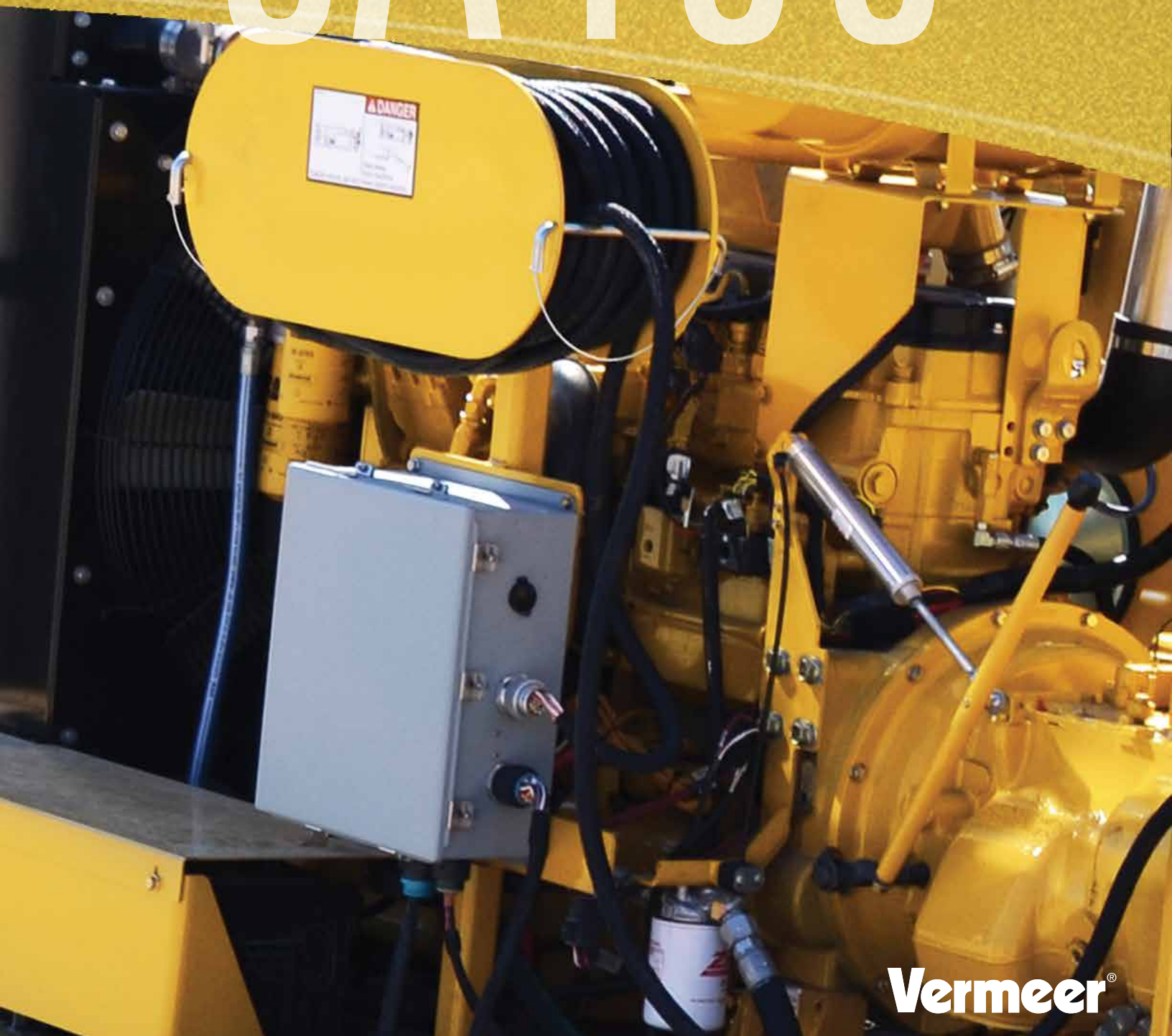


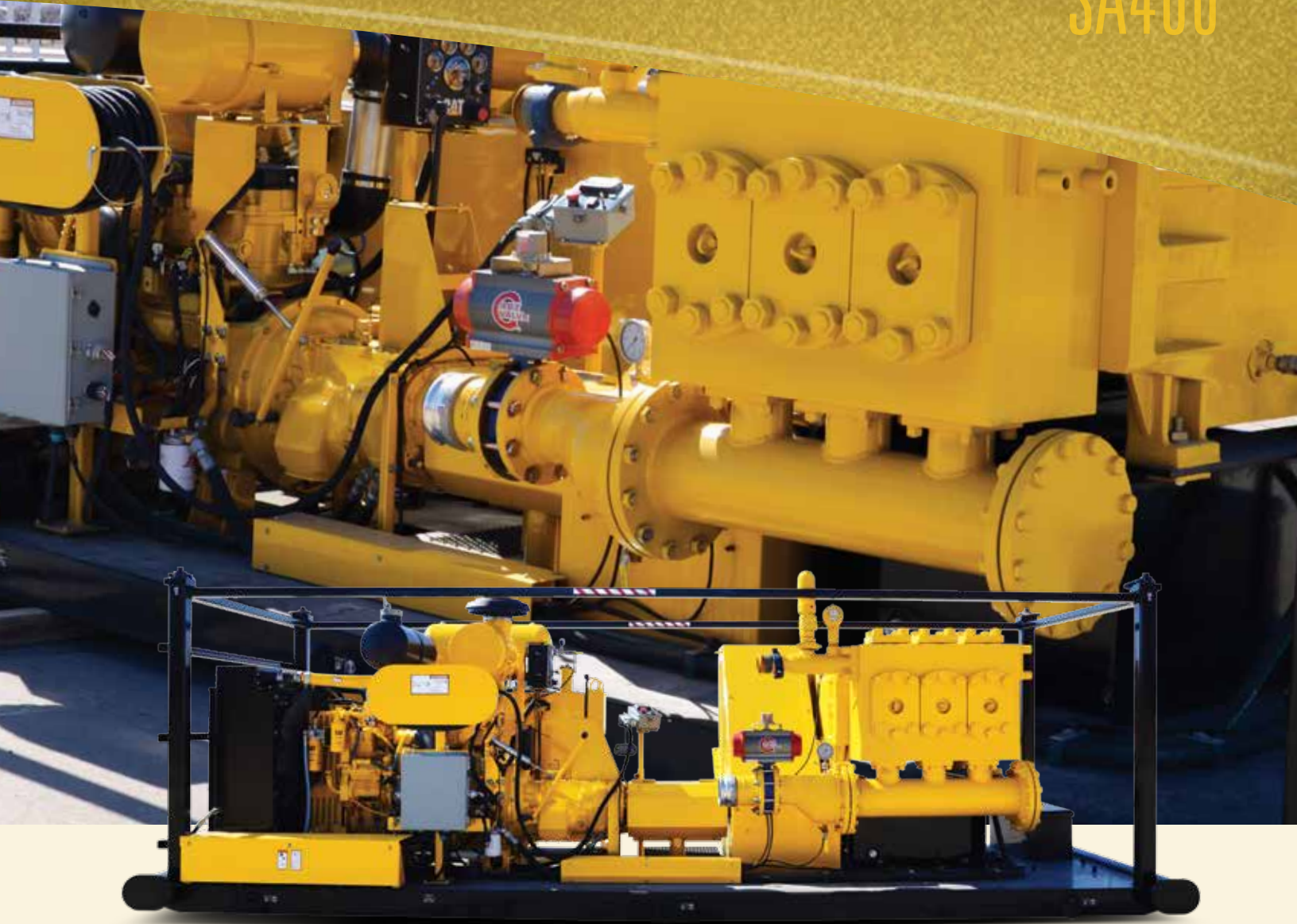
HIGH PRESSURE MUD PUMP

SA400



Vermeer[®]

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 550 gpm (2082 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

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

Stroke length: 7.9" (20.1 cm)
 Min flow at 100% efficiency: 78 gpm
 (295.3 L/min)
 Max flow at 100% efficiency: 550 gpm
 (2082 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)

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