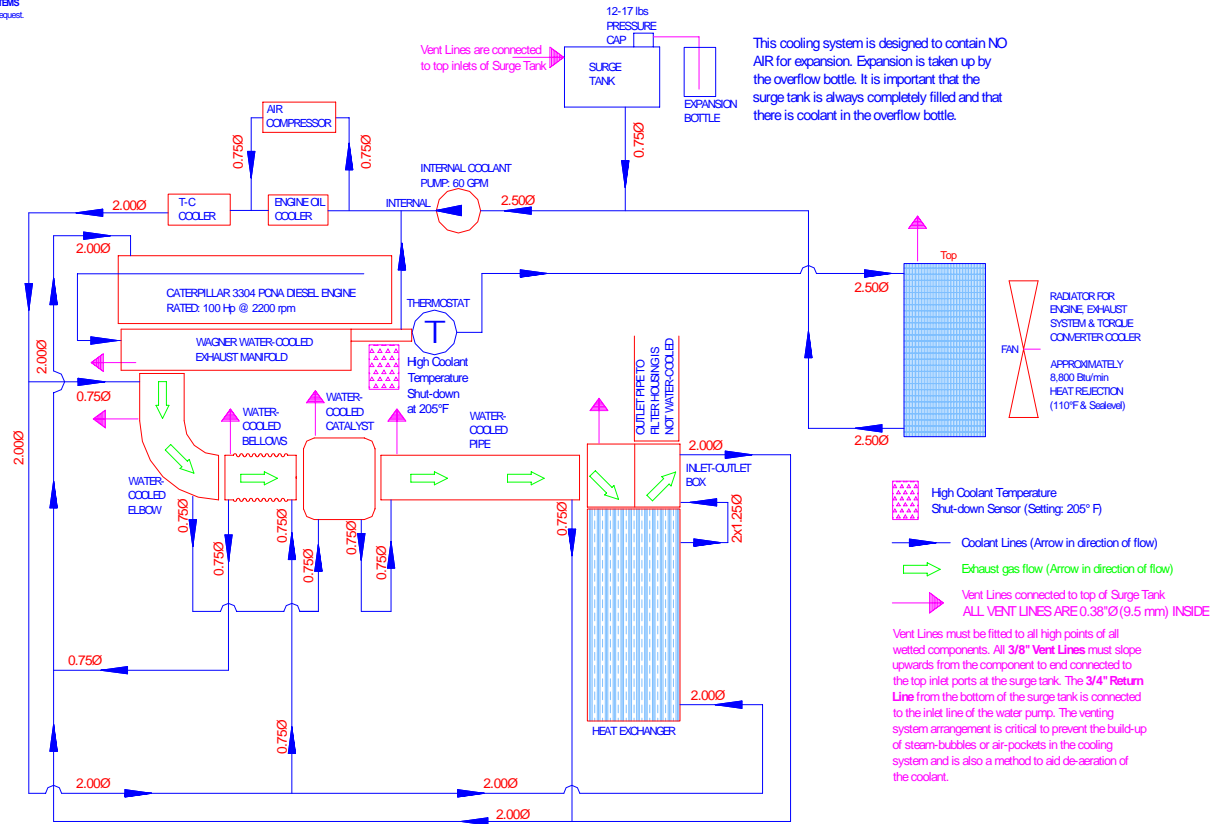


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**WETTED COMPONENTS INTERNAL WATER PASSAGES:
 THE WATER PASSAGE CLEARANCE BETWEEN THE INNER AND OUTER
 SHELL OF THE FABRICATED COMPONENTS IS 0.25" OR MORE.**



This cooling system is designed to contain NO AIR for expansion. Expansion is taken up by the overflow bottle. It is important that the surge tank is always completely filled and that there is coolant in the overflow bottle.

High Coolant Temperature Shut-down Sensor (Setting: 205° F)

Coolant Lines (Arrow in direction of flow)

Exhaust gas flow (Arrow in direction of flow)

Vent Lines connected to top of Surge Tank ALL VENT LINES ARE 0.38"Ø (9.5 mm) INSIDE

Vent Lines must be fitted to all high points of all wetted components. All 3/8" Vent Lines must slope upwards from the component to end connected to the top inlet ports at the surge tank. The 3/4" Return Line from the bottom of the surge tank is connected to the inlet line of the water pump. The venting system arrangement is critical to prevent the build-up of steam-bubbles or air-pockets in the cooling system and is also a method to aid de-aeration of the coolant.

DO NOT CHANGE WITHOUT PRIOR APPROVAL FROM MSHA

**100 Hp Caterpillar 3304 PCNA
 (Vertical Heat Exchanger)**

TOLERANCES			
Linear unless noted			
Machined: ± 0.005			
Fabricated: ± 0.02			
Angular: ± 1/2°			
Surface finish 125			

**DRY SYSTEMS
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DESCRIPTION	DATE	REVISED
COOLING SYSTEM		ONE
DATE	3 September 2003	
DESIGNED BY		NOBERT PASS
DRAWN BY		NOBERT PASS
APPROVED BY		
PROJECT NO.		M268-008-01

