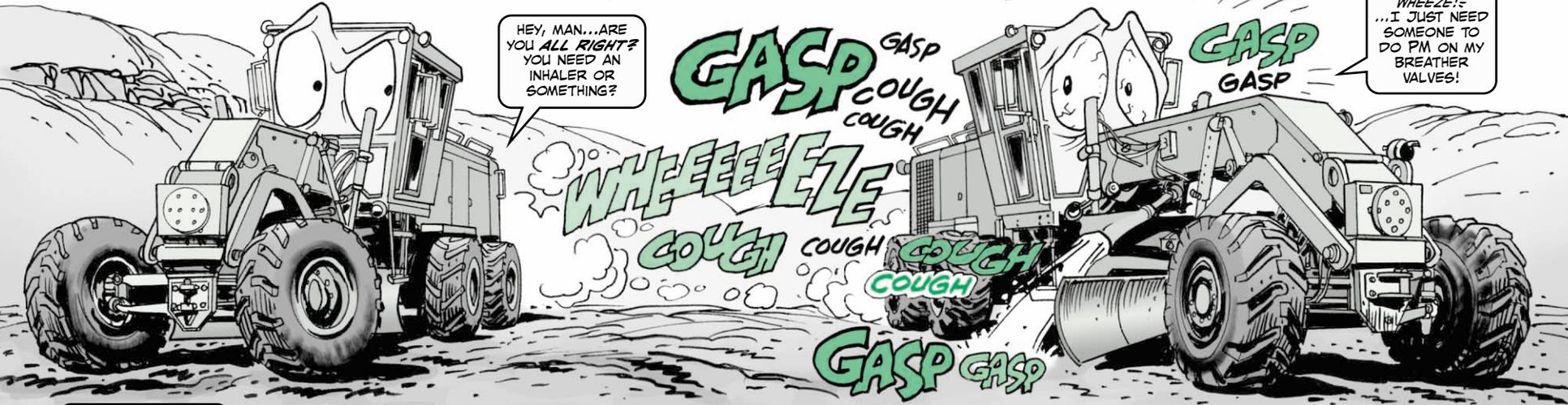


Let the Valves Breathe



YOU'VE GOT TO LET YOUR GRADER'S BREATHER VALVES BREATHE, OPERATORS...

...OR YOU'LL BE LOOKING AT DOWNTIME TO GET SEALS REPLACED.



Circle Drive

The breather valve on the grader's circle drive gear case gets caked with mud during operations. A clogged valve lets pressure build. Eventually, something has to give, and it's usually the gear case's seal. When the seal goes, the lube is bound to follow. End result: component failure, namely the circle drive.

Use a clean rag to wipe off the breather valve. Then twist the valve's cap to loosen any dirt stuck inside. Tap the cap to knock dirt out. Inside the cap is a spring, so the cap should bounce when you tap it. If the cap won't turn or bounce, get a new breather valve with NSN 4820-00-994-3015.



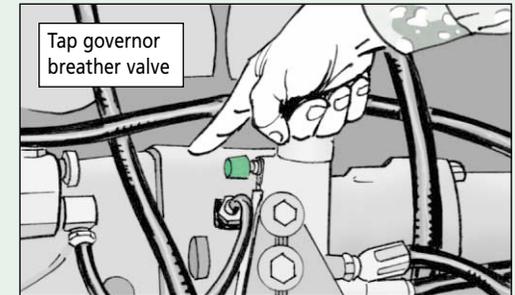
Air Governor

Another breather valve to keep an eye on is the one that mounts into the engine's air governor.

Engine vibration loosens and wears out the cap. Some caps vibrate completely out of the governor. When that happens, dirt gets into the air governor causing it to stick open. That lets air pressure build up and blow the seals in the air relief valves on the brake system's air tanks. Then your grader's air brake system can't build up air pressure.

So during your PMCS checks with the engine access door open, eyeball the breather valve. Grab it to make sure it's not loose. Then tap it a few times to make sure it bounces back.

If the cap won't turn or bounce, get a new breather valve with the same NSN.



MKII Bridge Boat Dipstick

Use NSN 6680-01-232-0102 to get the engine oil dipstick. This NSN replaces the parts info shown as Item 1, Fig 63 of TM 5-1940-277-20P.