



NOTHING LASTS FOREVER

14-POINT MAINTENANCE CHECKLIST



YOUR CLEANING EQUIPMENT IS DURABLE.YOUR EQUIPMENT IS WELL-MAINTAINED.

But...your equipment is used every day, the hours build up, and aging equipment can start to be a drain on staff time or even a potential hazard if there's a break-down during use. How do you know when your equipment is reaching the end of its useful life?

Tennant's experienced service professionals have put together a list of warning signs in typical high-wear maintenance categories.Take a look at these "before" pictures that show aging equipment with service issues that indicate that it may be time to plan for replacement.



Service Department
P: 269.349.6637
www.kssenterprises.com



WHERE

Equipment with gasoline and LP engines.

WHAT

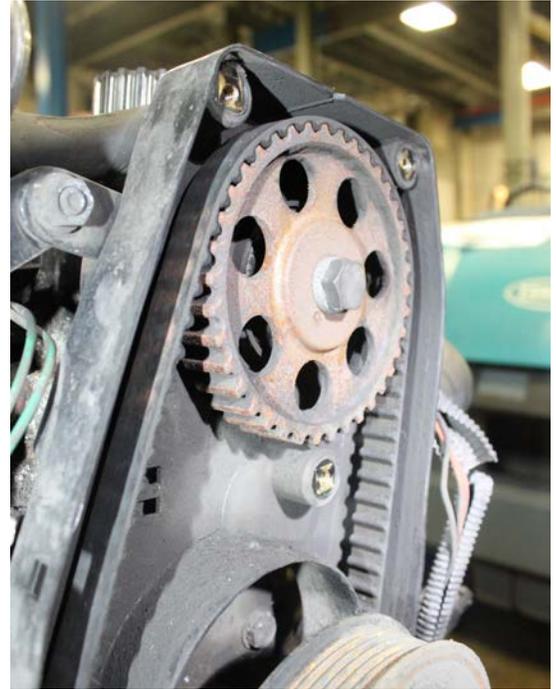
Times the interaction between the engine's crank and camshafts, ensuring smooth operation.

WHY IT'S IMPORTANT

A broken pulley or timing belt can lead to extensive damage to the engine.

LOOK FOR

- General wear and tear, cracks, shredding, or slack in the belt.
- Recommended replacement for timing belts is 2000 hours of use, but harsh environments or operating conditions could require replacement sooner.



WHERE

Equipment with gasoline and diesel engines.

WHAT

Carries the fuel needed for the engine to function.

WHY IT'S IMPORTANT

Build-up of oil and grime in the feed lines or other wear issues can decrease the flow of fuel to the engine, cause it to "run hot" and wear out faster than expected.

LOOK FOR:

- Cracks, bulges or wet spots in the fuel hose.
- If the feed line is disconnected, look to see if the interior of the line is dirty or shows signs of oily build up.
- In severe cases, the engine may rev up while running and then choke off as the system tries to deliver enough fuel to the engine.



WHERE

Motors and housing for cleaning brushes on scrubbers and sweepers.

WHAT

Drives the movement of brushes that perform cleaning operations.

WHY IT'S IMPORTANT

Debris or wear can negatively affect brush operation, limiting the machine's ability to clean effectively.

LOOK FOR:

- Debris stuck in the brush or housing, cracked or corroded components, or changes in the operation of your brushes that can be seen or heard.
- If brushes are spinning at a slow rate, vibrating, or making a lot of noise, it's a sign that there's an issue with the brush – continuing to operate the machine could cause additional damage to the brush and brush motor.

**WHERE**

Components that attach a squeegee to a scrubber.

WHAT

maximizes the pick-up of water sprayed onto the floor during the cleaning process.

WHY IT'S IMPORTANT

Damaged linkage systems leave dirty liquid on the floor creating potential safety hazards and making rework necessary to clean properly.

LOOK FOR

- Water trails on the floor during cleaning.
- A linkage system that does not look parallel to the ground or centered on the machine.
- Corrosion near the points where water collects and is picked up by the system.





WHERE

Mechanical device found on cylinder head of the engine.

WHAT

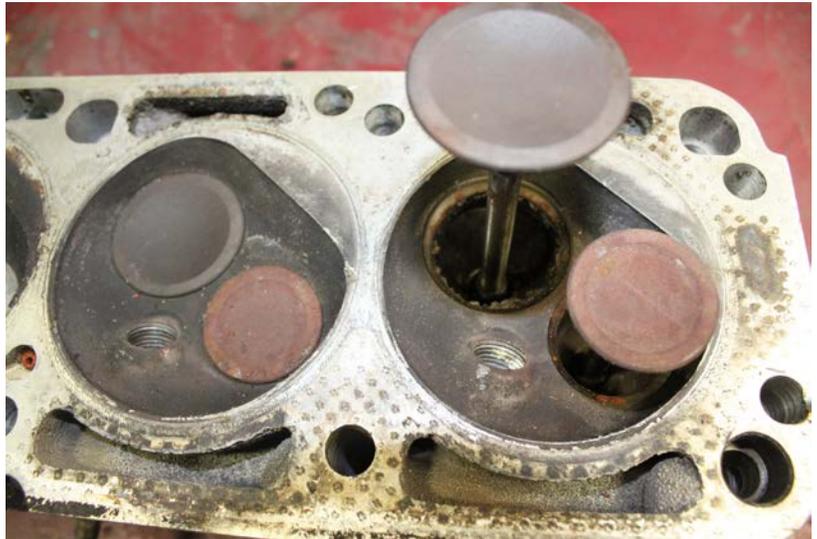
Valve actuation controls the flow of air and fuel to the engine very precisely and allows for proper engine function.

WHY IT'S IMPORTANT

Valve failure can contribute to significant engine damage over time and lead to expensive repairs.

LOOK FOR

- Valve issues can be tricky to diagnose, since their interaction in the engine is highly complex. On older equipment or machines that are in heavy use, make sure valves are inspected for wear during routine maintenance.
- If your equipment is using fuel at a faster rate than it should be, or is slow to gain power when running at high RPMs, a valve issue may be the culprit.



WHERE

Metal components of mechanized sweeping and scrubbing equipment.

WHAT

Corrosion on metal parts exposed to water and chemicals.

WHY IT'S IMPORTANT

While surface rust is expected on older equipment, corrosion that penetrates through metal components can compromise the strength of steel frames, scrub heads, head gaskets, and other areas of your machine.

LOOK FOR

- On older equipment, check periodically to see if surface corrosion is starting to deepen or pit into metal components.





WHERE

Machines that are more than 10 years out of production.

WHAT

Parts that meet specific requirements and fit properly on to machines that are no longer manufactured.

WHY IT'S IMPORTANT

Replacing parts with poorly fitting replacements can contribute to machine wear and poor performance, or even pose a safety risk if a poorly fitting part causes a breakdown during use.

LOOK FOR

③ The age of the machine. If your machine is no longer manufactured, replacement parts may have been phased out as well.



Use this checklist to review typical high-wear maintenance categories on your equipment.

COMPONENT	OK	NEEDS ATTENTION
Timing Belts		
Wear & tear/cracks/shredding/slack	<input type="checkbox"/>	<input type="checkbox"/>
Belt in use for 200 hours or in a harsh environment	<input type="checkbox"/>	<input type="checkbox"/>
Fuel Systems		
Cracks, bulges or wet spots in the fuel hose	<input type="checkbox"/>	<input type="checkbox"/>
Feed line is dirty or shows signs of oily build up	<input type="checkbox"/>	<input type="checkbox"/>
Engine revs up while running and then chokes off	<input type="checkbox"/>	<input type="checkbox"/>
Brush Housing/Motors		
Brush housing debris/cracking/corrosion	<input type="checkbox"/>	<input type="checkbox"/>
Brush slow spin rate/vibration/noise	<input type="checkbox"/>	<input type="checkbox"/>
Squeegee Linkage		
Water trails on floor	<input type="checkbox"/>	<input type="checkbox"/>
Linkage system not parallel to ground or centered on machine	<input type="checkbox"/>	<input type="checkbox"/>
Corrosion near points where water is collected	<input type="checkbox"/>	<input type="checkbox"/>
Engine Valves		
Valve wear on older or heavily used equipment: check during service	<input type="checkbox"/>	<input type="checkbox"/>
Equipment is using fuel at a faster rate or slow to gain power at high RPMs	<input type="checkbox"/>	<input type="checkbox"/>
Rusted Parts: Surface rust deepening or pitting metal components	<input type="checkbox"/>	<input type="checkbox"/>
Obsolete Parts: Machine more than 10 years out of production	<input type="checkbox"/>	<input type="checkbox"/>



DO YOU HAVE A MACHINE THAT NEEDS ATTENTION?

Contact our Service Department to schedule a service call

▶ 269.349.6637