

Maintenance Checklists

Periodic scheduled maintenance is intended to be performed in a complete maintenance facility by trained mechanics. Scheduled maintenance procedures can be found by referring to the appropriate section of the service manual.

Always refer to manufacture's (e.g. engine, transmission, axle) maintenance manual before performing any maintenance.

First Shift (10 Hours)

Perform these checks after the first shift, or after 10 hours, whichever occurs first.

1	Check torque of expander pins. See forms 80-222 & 80-1421 in Service Manual.	OK <input type="checkbox"/>	No <input type="checkbox"/>
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First 50 Hours

These checks should be performed after the machine has been in service for 50 hours.

1	Check fluid levels - differential, planetaries	OK <input type="checkbox"/>	Add <input type="checkbox"/>
2	Check hydraulic system - hoses, fittings	OK <input type="checkbox"/>	Repair <input type="checkbox"/>
3	Check battery - cables & connections	OK <input type="checkbox"/>	Repair <input type="checkbox"/>
4	Check all driveline capscrews - torque to spec. See service forms 80-1057 Torque Specification Chart & 80-627 Driveline Service.	OK <input type="checkbox"/>	No <input type="checkbox"/>
5	Check electrical system - lights, options, connections	OK <input type="checkbox"/>	No <input type="checkbox"/>
6	Check all pins, bushings and load bearing hardware	OK <input type="checkbox"/>	No <input type="checkbox"/>
7	Check accumulator pre-charge. See form 80-1076 in Service Manual.	OK <input type="checkbox"/>	No <input type="checkbox"/>
8	Check parking brake lining wear and readjust if necessary	OK <input type="checkbox"/>	Readjust <input type="checkbox"/>
9	Check torque of expander pins. See forms 80-222 & 80-1421 in Service Manual.	OK <input type="checkbox"/>	No <input type="checkbox"/>
10	Check wheel lug nuts and studs mechanically, check torque	OK <input type="checkbox"/>	Readjust <input type="checkbox"/>

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First 100 Hours

These checks should be performed after the machine has been in service for 100 hours.

1	Drain and fill differential	OK <input type="checkbox"/>	No <input type="checkbox"/>
2	Drain and fill planetaries	OK <input type="checkbox"/>	No <input type="checkbox"/>
3	Inspect wheel bearing, readjust if necessary	OK <input type="checkbox"/>	No <input type="checkbox"/>
4	Check wheel lug nuts and studs mechanically, check torque	OK <input type="checkbox"/>	Readjust <input type="checkbox"/>
5	Change transmission filters	OK <input type="checkbox"/>	No <input type="checkbox"/>

Weekly Maintenance (50 Hours)

Perform these checks weekly, or after 50 hours, whichever occurs first.

1	Repeat the Daily/Shift maintenance (see Section 5-4-1)	OK <input type="checkbox"/>	No <input type="checkbox"/>
2	Check for fluid leaks - oil, fuel, water, transmission	OK <input type="checkbox"/>	Repair <input type="checkbox"/>
3	Check battery electrolyte level	OK <input type="checkbox"/>	Add <input type="checkbox"/>
4	Lubricate chassis & driveline cross assemblies	OK <input type="checkbox"/>	No <input type="checkbox"/>
5	Record engine rpm	High <input type="text"/>	Stall <input type="text"/>
6	Check for structural damage - inspect chassis & attachments for bending, cracking & broken welds	OK <input type="checkbox"/>	Repair <input type="checkbox"/>

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Bi-Weekly Maintenance (100 Hours)

Perform these checks every other week, or after 100 hours, whichever occurs first.

1	Check wheel lug nuts and studs mechanically, check torque	OK <input type="checkbox"/>	Repair <input type="checkbox"/>
2	Check cab air intake filter	OK <input type="checkbox"/>	No <input type="checkbox"/>
3	Check cab recirculation filter	OK <input type="checkbox"/>	No <input type="checkbox"/>

Monthly Maintenance (250 Hours)

Perform these checks monthly, or after 250 hours, whichever occurs first.

1	Repeat the 100 hour check	OK <input type="checkbox"/>	No <input type="checkbox"/>
2	Check axle differential oil level	OK <input type="checkbox"/>	Add <input type="checkbox"/>
3	Check axle planetary oil levels	OK <input type="checkbox"/>	Add <input type="checkbox"/>
4	Check all hydraulic pressures and record	OK <input type="checkbox"/>	No <input type="checkbox"/>
5	Check fire suppression actuator	OK <input type="checkbox"/>	No <input type="checkbox"/>
6	Check and adjust the parking brake (if required)	OK <input type="checkbox"/>	No <input type="checkbox"/>
7	Change hydraulic tank breather assembly	OK <input type="checkbox"/>	No <input type="checkbox"/>
8	Check torque of expander pins. See forms 80-222 & 80-1421 in Service Manual.	OK <input type="checkbox"/>	No <input type="checkbox"/>
9	Sample fuel. Check for water. See Section 2-4 in Service Manual.	OK <input type="checkbox"/>	No <input type="checkbox"/>
10	Flush fuel strainer	OK <input type="checkbox"/>	No <input type="checkbox"/>
11	Clean the area around the linear position sensor on the bucket	OK <input type="checkbox"/>	No <input type="checkbox"/>
12	Obtain engine oil sample for analysis	OK <input type="checkbox"/>	No <input type="checkbox"/>
13	Clean radiator	OK <input type="checkbox"/>	No <input type="checkbox"/>
14	Change pressure fuel filter	OK <input type="checkbox"/>	No <input type="checkbox"/>
15	Change suction fuel filter	OK <input type="checkbox"/>	No <input type="checkbox"/>
16	Check pump mounting bolts and hose connections. Re-torque if necessary.	OK <input type="checkbox"/>	No <input type="checkbox"/>

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Quarterly Maintenance (500 Hours)

Perform these checks quarterly, or after 500 hours, whichever occurs first.

1	Repeat the 250 hour check	OK <input type="checkbox"/>	No <input type="checkbox"/>
2	Change high pressure hydraulic filters*	OK <input type="checkbox"/>	No <input type="checkbox"/>
3	Change hydraulic return filters*	OK <input type="checkbox"/>	No <input type="checkbox"/>
4	Change transmission filters*	OK <input type="checkbox"/>	No <input type="checkbox"/>
5	Take oil samples from transmission, axle, and hydraulic system for analysis	OK <input type="checkbox"/>	No <input type="checkbox"/>
6	Change brake cooling return filter	OK <input type="checkbox"/>	No <input type="checkbox"/>
7	Check accumulator pre-charge pressure. See form 80-1076 in Service Manual.	OK <input type="checkbox"/>	No <input type="checkbox"/>
8	Change engine oil & filters*	OK <input type="checkbox"/>	No <input type="checkbox"/>
9	Change fuel filter and fuel/water separator element*	OK <input type="checkbox"/>	No <input type="checkbox"/>
10	Check and adjust valve clearance	OK <input type="checkbox"/>	No <input type="checkbox"/>
11	Check antifreeze concentration	OK <input type="checkbox"/>	No <input type="checkbox"/>
12	Test radiator pressure cap	OK <input type="checkbox"/>	No <input type="checkbox"/>
13	Check charge air cooler	OK <input type="checkbox"/>	No <input type="checkbox"/>
14	Clean the DEF tank filler filter	OK <input type="checkbox"/>	No <input type="checkbox"/>

* Normal drain and filter change intervals are for average environmental and duty-cycle conditions. Severe or sustained high operating temperatures, or very dusty atmospheric conditions will cause accelerated deterioration and contamination. Change intervals should be adjusted according to the results of oil sampling analysis. Consult your Wagner dealer for assistance in establishing an oil sampling program for your equipment.

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Semi-Annual Maintenance (1000 Hours)

Perform these checks semi-annually, or after 1000 hours, whichever occurs first.

1	Repeat the 500 hour check	OK <input type="checkbox"/>	No <input type="checkbox"/>
2	Change transmission oil & filters*	OK <input type="checkbox"/>	No <input type="checkbox"/>
3	Drain wet disk brake housings	OK <input type="checkbox"/>	No <input type="checkbox"/>
4	Check pins and bushings for wear	OK <input type="checkbox"/>	No <input type="checkbox"/>
5	Drain, flush and fill differential*	OK <input type="checkbox"/>	No <input type="checkbox"/>
6	Drain, flush and fill planetaries*	OK <input type="checkbox"/>	No <input type="checkbox"/>
7	Steam clean machine, inspect for structural cracks	OK <input type="checkbox"/>	No <input type="checkbox"/>
8	Replace cab air intake and air recirculation elements	OK <input type="checkbox"/>	No <input type="checkbox"/>
9	Drivelines - See service form 80-627, Driveline Service & Maintenance	OK <input type="checkbox"/>	No <input type="checkbox"/>
10	Have ANSUL representative inspect and recertify fire suppression system	OK <input type="checkbox"/>	No <input type="checkbox"/>
11	Change the recirculating air filter elements	OK <input type="checkbox"/>	No <input type="checkbox"/>
12	Remove, clean and reinstall the air filters on the evaporators	OK <input type="checkbox"/>	No <input type="checkbox"/>
13	Check the engine drive belts	OK <input type="checkbox"/>	No <input type="checkbox"/>
14	Change the DEF tank header filter*	OK <input type="checkbox"/>	No <input type="checkbox"/>
15	Drain wet disk brake housings	OK <input type="checkbox"/>	No <input type="checkbox"/>
16	Inspect AC system components. See 80-1082 in Service Manual.	OK <input type="checkbox"/>	No <input type="checkbox"/>
17	Drain and clean fuel tank. See 80-1288 in Service Manual.	OK <input type="checkbox"/>	No <input type="checkbox"/>
18	Remove and clean fuel strainer. See 80-1288 in Service Manual.	OK <input type="checkbox"/>	No <input type="checkbox"/>
19	Replace fuel tank assembly breather. See 80-1288 in Service Manual.	OK <input type="checkbox"/>	No <input type="checkbox"/>

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Every 1,500 Hours, or 1 Year

Perform these checks at 1500 hours, or 1 year, whichever occurs first.

1	Change coolant filter	OK <input type="checkbox"/>	No <input type="checkbox"/>
2	Inspect coolant filter head	OK <input type="checkbox"/>	No <input type="checkbox"/>
3	Check cooling fan belt tensioner	OK <input type="checkbox"/>	No <input type="checkbox"/>
4	Check for air leaks, air intake and exhaust system	OK <input type="checkbox"/>	No <input type="checkbox"/>
5	Check engine wiring harness	OK <input type="checkbox"/>	No <input type="checkbox"/>
6	Clean aftertreatment fuel injector	OK <input type="checkbox"/>	No <input type="checkbox"/>

Annual Maintenance (2000 Hours)

Perform these checks annually, or after 2000 hours, whichever occurs first.

1	Repeat the 1,000 hour check	OK <input type="checkbox"/>	No <input type="checkbox"/>
2	Change hydraulic oil and filters*	OK <input type="checkbox"/>	No <input type="checkbox"/>
3	Drivelines - Inspect slip splines for wear (backlash). See service form 80-627, Driveline Service & Maintenance	OK <input type="checkbox"/>	No <input type="checkbox"/>
4	Check wet disc brake lining wear	OK <input type="checkbox"/>	No <input type="checkbox"/>
5	Inspect wheel bearing, readjust if necessary	OK <input type="checkbox"/>	No <input type="checkbox"/>
6	Have Allied representative inspect machine (annually)	OK <input type="checkbox"/>	No <input type="checkbox"/>
7	Change the intake air cleaner primary and secondary elements*	OK <input type="checkbox"/>	No <input type="checkbox"/>
8	Check the swivel box wear (see 80-1166-CHD100-serial number)	OK <input type="checkbox"/>	No <input type="checkbox"/>
9	Check the coolant's anti-freeze and corrosion protection	OK <input type="checkbox"/>	No <input type="checkbox"/>

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Every 3000 Hours

Perform these checks every 3000 hours. *

1*	Change crankcase breather element	OK <input type="checkbox"/>	No <input type="checkbox"/>
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* Service interval may be reduced if engine fault codes indicate excessive crankcase pressure.

Every 4500 Hours, or 2 Years

Perform these checks every 4500 hours, or 2 years, whichever occurs first.

1	Check/clean/replace aftertreatment diesel particulate filter	OK <input type="checkbox"/>	Repair <input type="checkbox"/>
2	Change aftertreatment diesel exhaust fluid dosing unit filter	OK <input type="checkbox"/>	No <input type="checkbox"/>

Every 6000 Hours, or 3 Years

Perform these checks every 6000 hours, or 3 years, whichever occurs first.

1	Check engine mounting bolts	OK <input type="checkbox"/>	No <input type="checkbox"/>
2	Steam clean engine	OK <input type="checkbox"/>	No <input type="checkbox"/>
3	Check vibration dampener, engine	OK <input type="checkbox"/>	No <input type="checkbox"/>
4	Adjust overhead set	OK <input type="checkbox"/>	No <input type="checkbox"/>
5	Check radiator hose	OK <input type="checkbox"/>	No <input type="checkbox"/>
6	Check cold weather starting aids (if applicable)	OK <input type="checkbox"/>	No <input type="checkbox"/>
7	Test engine brake assembly	OK <input type="checkbox"/>	No <input type="checkbox"/>
8	Inspect engine mounts	OK <input type="checkbox"/>	No <input type="checkbox"/>

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Every 10000 Hours, or 5 Years

Perform these checks every 10000 hours, or 5 years, whichever occurs first.

1	Adjust overhead set	OK <input type="checkbox"/>	Repair <input type="checkbox"/>
2	Test and adjust engine brake assembly	OK <input type="checkbox"/>	No <input type="checkbox"/>

Every 12,000 Hours, or 6 Years

Perform these checks every 12,000 hours, or 6 years, whichever occurs first.

1	Change coolant and clean cooling system	OK <input type="checkbox"/>	No <input type="checkbox"/>
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Overhaul Schedule

To maximize efficiency and minimize downtime and costly failures, Allied Systems Company recommends the following overhaul chart to be used. When followed closely, your equipment will last longer with less unexpected downtime. Contact your local Wagner dealer for the kits necessary to overhaul your drivetrain components or allow your dealer to overhaul the components for you. They are authorized to overhaul and test your components.

It is recommended that some components be overhauled at the same time, even if they might have some time before their required rebuild, to minimize downtime. Many components may have to be removed in order to gain access to others so the parts should all be rebuilt together. This will save you from having to tear the machine down again a few thousand operation hours later.

During the overhaul process, make sure all parts are thoroughly cleaned before installation. Parts that do not receive this cleaning can cause the lubricant to become contaminated, which leads to much shorter service life.



CAUTION

The overhaul schedule below is applicable when all preventive maintenance and oil testing is performed and only when genuine Wagner OEM replacement parts and lubricants are used. Major component overhauls may need to be performed more frequently if preventive maintenance is not performed, non-OEM replacement parts are used, and/or the machine is operated frequently on slopes, uneven terrain, or in poor traction conditions.

Component	Hours
Engine	20,000
Transmission	20,000
Converter	10,000
Pumps	10,000
Axle	20,000
Brakes	20,000*
Hydraulic Cylinders - Reseal	10,000
Hoses and Fittings	20,000

* Or sooner if indicated during 2,000 hour wear check.

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