

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 50 Hours

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

1	Check fluid levels - differential, planetaries	ок 🗖	Add \square
2	Check hydraulic system - hoses, fittings	ок 🗖	Repair 🗖
3	Check battery - cables & connections	ок 🗖	Repair 🗖
4	Check all driveline capscrews - torque to spec. See service forms 80-1057 Torque Specification Chart & 80-627 Driveline Service.	ок 🗖	No 🗖
5	Check electrical system - lights, options, connections	ок 🗖	No 🗖
6	Check all pins, bushings and load bearing hardware	ок 🗖	No 🗖
7	Check accumulator pre-charge (see 80-1076)	ок 🗖	No 🗖
8	Check parking brake lining wear and readjust if necessary	ок 🗖	Readjust
9	Check wheel lug nuts and studs mechanically, check torque	ок 🗖	Readjust 🗖

First 100 Hours

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

1	Drain and fill differential	ок 🗖	No 🗖
2	Drain and fill planetaries	ок 🗖	No 🗖
3	Inspect wheel bearing preload, readjust if necessary	ок 🗖	No 🗖
4	Check wheel lug nuts and studs mechanically, check torque	ок 🗖	Readjust
5	Change transmission filters	ок 🗖	No 🗖

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Weekly Maintenance (50 Hours)

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

1	Repeat the daily check - see form Daily/Shift Maintenance in section 5	ок 🗖	No 🗖
2	Check for fluid leaks - oil, fuel, water, transmission	ок 🗖	Repair 🗖
3	Check battery electrolyte level	ок 🗖	Add 🗖
4	Lubricate chassis & driveline cross assemblies	ок 🗖	No 🗖
5	Record engine rpm	High	Stall
6	Check for structural damage - inspect chassis & attachments for bending, cracking & broken welds	ок 🗖	Repair 🗖

Bi-Weekly Maintenance (100 Hours)

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

1	Repeat the 50 hour check	ок 🗖	No 🗖
2	Check wheel lug nuts and studs mechanically, check torque	ок 🗖	Repair 🗖

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Monthly Maintenance (250 Hours)

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

1	Repeat the 100 hour check	ок 🗖	No 🗖
2	Obtain engine oil sample for analysis	ок 🗖	No 🗖
3	Check axle differential oil level	ок 🗖	Add 🗖
4	Check axle planetary oil levels	ок 🗖	Add 🗖
5	Check all hydraulic pressures and record	ок 🗖	No 🗖
6	Check fire suppression actuator (if installed)	ок 🗖	No 🗖
7	Check and adjust the parking brake (if required)	ок 🗖	No 🗖
8	Clean radiator	ок 🗖	No 🗖
9	Change hydraulic tank breather assembly	ок 🗖	No 🗖
10	Check pump mounting bolts and hose connections. Re-torque if necessary.	ок 🗖	No 🗖
11	Change fuel system primary filter (water separator) element	ок 🗖	No 🗖
12	Change secondary fuel filter	ок 🗖	No 🗖
13	Obtain coolant sample (level 1) for analysis	ок 🗖	No 🗖
14	Test/Add cooling system supplemental cooling additive (SCA) if necessary	ок 🗖	Add 🗖
15	Check/Clean/Tighten engine grounding stud	ок 🗖	No 🗖
16	Check/Replace engine hoses and clamps	ок 🗖	No 🗖
17	Clean engine crankcase breather	ок 🗖	No 🗖
18	Check engine starting motor	ок 🗖	No 🗖

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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	ок 🗖	No 🗖
2	Change high pressure hydraulic filters (if applicable)	ок 🗖	No 🗖
3	Change brake cooling return filter	ок 🗖	No 🗖
4	Change hydraulic return filters	ок 🗖	No 🗖
5	Change transmission filters	ок 🗖	No 🗖
6	Take oil samples from transmission, axle, and hydraulic system for analysis	ок 🗖	No 🗖
7	Check accumulator pre-charge pressure (see 80-1076)	ок 🗖	No 🗖
8	Obtain engine oil sample for analysis	ок 🗖	No 🗖
9	Change engine oil & filters	ок 🗖	No 🗖
10	Inspect/Adjust/Replace engine belts	ок 🗖	No 🗖
11	Inspect Turbocharger	ок 🗖	No 🗖
12	Check supplemental coolant additive (SCA) and antifreeze concentration	ок 🗖	No 🗖
13	Inspect Water Pump	ок 🗖	No 🗖

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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	ок 🗖	No 🗖
2	Change transmission oil	ок 🗖	No 🗖
3	Change transmission filters	ок 🗖	No 🗖
4	Check pins and bushings for wear	ок 🗖	No 🗖
5	Steam clean machine, inspect for structural cracks	ок 🗖	No 🗖
6	Replace cab pressurizer elements.	ок 🗖	No 🗖
7	Drivelines - See service form 80-627, Driveline Service & Maintenance.	ок 🗖	No 🗖
8	Have ANSUL representative inspect and recertify fire suppression system	ок 🗖	No 🗖
9	Replace recirculating air filter elements	ок 🗖	No 🗖
10	Remove, clean and reinstall the air filters on the evaporators	ок 🗖	No 🗖
11	Inspect AC system components (see 80-1082 in Service Manual)	ок 🗖	No 🗖
12	Drain and fill differential	ок 🗖	No 🗖
13	Drain and fill planetaries	ок 🗖	No 🗖
14	Clean engine crankcase breather	ок 🗖	No 🗖

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Annual Maintenance (2000 Hours)

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

1	Repeat the 1,000 hour check	ок 🗖	No 🗖
2	Change hydraulic oil	ок 🗖	No 🗖
3	Drivelines - Inspect slip splines for wear (backlash). See service form 80-627, Driveline Service & Maintenance	ок 🗖	No 🗖
4	Have Allied representative inspect machine (annually)	ок 🗖	No 🗖
5	Check wet disc brake lining wear	ок 🗖	No 🗖
6	Inspect wheel bearing preload, readjust if necessary	ок 🗖	Readjust
7	Obtain coolant sample (level 2) for analysis	ок 🗖	No 🗖
8	Test engine air shutoff	ок 🗖	No 🗖

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Every 3000 Hours

Perform these checks every 3000 hours or 3 years, whichever comes first.

1*	Clean/Test aftercooler core	ок 🗖	No 🗖
2*	Replace coolant temperature regulator	ок 🗖	No 🗖
3*	Inspect crankshaft vibration damper	ок 🗖	No 🗖
4*	Check driven equipment	ок 🗖	No 🗖
5*	Check/Replace electronic unit injector	ок 🗖	No 🗖
6	Clean engine	ок 🗖	No 🗖
7	Inspect engine mounts	ок 🗖	No 🗖
8*	Check engine protective devices	ок 🗖	No 🗖
9*	Clean/Inspect speed timing sensor	ок 🗖	No 🗖
10*	Check engine valve lash	ок 🗖	No 🗖
11*	Inspect engine valve rotators	ок 🗖	No 🗖
12	Lubricate fan drive bearing (if applicable)	ок 🗖	No 🗖

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^{*} Service must be performed by a Caterpillar representative.

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/Fuel Consumption in Liters
Engine	20,000/585,000
Transmission	20,000
Converter	10,000
Pumps	10,000
Axle	20,000
Brakes	40,000
Hydraulic Cylinders - Reseal	10,000
Hoses and Fittings	20,000

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