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

First 100 Hours

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

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

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Daily Maintenance (10 Hours)

Perform these checks every day, or after 10 hours, whichever occurs first.

1	Check engine air cleaner	OK ❒	No ❒

Weekly Maintenance (50 Hours)

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

1	Repeat the 10 hour check	OK ❒	No ❒
2	Check for fluid leaks - oil, fuel, water, transmission	OK ❒	Repair ❒
3	Check battery electrolyte level	OK ❒	Add ❒
4	Lubricate chassis & driveline cross assemblies	OK ❒	No ❒
5	Record engine rpm	High_____	Stall_____
6	Check for structural damage - inspect chassis & attachments for bending, cracking & broken welds	OK ❒	Repair ❒

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 ❒	Repair ❒
2	Check cab air intake filter	OK ❒	No ❒
3	Check cab recirculation filter	OK ❒	No ❒

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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	OK ❒	No ❒
2	Obtain engine oil sample for analysis*	OK ❒	No ❒
3	Check axle differential oil level	OK ❒	Add ❒
4	Check axle planetary oil levels	OK ❒	Add ❒
5	Change fuel water separator/fuel filter	OK ❒	Add ❒
6	Check supplemental coolant additive (SCA) and Antifreeze Concentration	OK ❒	Add ❒
7	Check all hydraulic pressures and record	OK ❒	No ❒
8	Check fire suppression actuator	OK ❒	No ❒
9	Check and adjust the parking brake (if required)	OK ❒	No ❒
10	Change hydraulic tank breather assembly	OK ❒	No ❒
11	Check pump mounting bolts and hose connections. Re-torque if necessary.	OK ❒	No ❒

* 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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Quarterly Maintenance (500 Hours)

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

1	Repeat the 250 hour check	OK ❒	No ❒
2	Change high pressure hydraulic filters*	OK ❒	No ❒
3	Change hydraulic return filters*	OK ❒	No ❒
4	Change transmission filters*	OK ❒	No ❒
5	Take oil samples from transmission, axle, and hydraulic system for analysis	OK ❒	No ❒
6	Change brake cooling return filter	OK ❒	No ❒
7	Check accumulator pre-charge pressure (see 80-1076)	OK ❒	No ❒
8	Change engine oil & filters (see service bulletin WSB0402 or engine manual)*	OK ❒	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	OK ❒	No ❒
2	Change transmission oil & filters*	OK ❒	No ❒
3	Drain wet disk brake housings	OK ❒	No ❒
4	Clean and flush cooling system	OK ❒	No ❒
5	Check pins and bushings for wear	OK ❒	No ❒
6	Drain, flush and fill differential*	OK ❒	No ❒
7	Drain, flush and fill planetaries*	OK ❒	No ❒
8	Steam clean machine, inspect for structural cracks	OK ❒	No ❒
9	Replace cab air intake and air recirculation elements.	OK ❒	No ❒
10	Drivelines - See service form 80-627, Driveline Service & Maintenance.	OK ❒	No ❒
11	Have ANSUL representative inspect and recertify fire suppression system	OK ❒	No ❒
12	Change the recirculating air filter elements	OK ❒	No ❒
13	Remove, clean and reinstall the air filters on the evaporators	OK ❒	No ❒

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Every 1,500 Hours, or 1 Year

Perform these checks at 1500 hours, or 1 year, whichever occurs first. Perform all previous maintenance procedures that are due for scheduled maintenance.

1	Change coolant filter	OK ❒	No ❒
2	Inspect coolant filter head	OK ❒	No ❒
3	Check cooling fan belt tensioner	OK ❒	No ❒
4	Check for air leaks, air intake and exhaust system	OK ❒	No ❒
5	Air cleaner restriction	OK ❒	No ❒
6	Check engine wiring harness	OK ❒	No ❒

Annual Maintenance (2000 Hours)

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

1	Repeat the 1,000 hour check	OK ❒	No ❒
2	Change hydraulic oil and filters*	OK ❒	No ❒
3	Drivelines - Inspect slip splines for wear (backlash). See service form 80-627, Driveline Service & Maintenance	OK ❒	No ❒
4	Check wet disc brake lining wear	OK ❒	No ❒
5	Inspect wheel bearing, readjust if necessary	OK ❒	No ❒
6	Have Allied representative inspect machine (annually)	OK ❒	No ❒

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Every 6,000 Hours, or 2 Years

Perform these checks at 6000 hours, or 2 years, whichever occurs first. Perform all previous maintenance procedures that are due for scheduled maintenance.

1	Check radiator hose	OK ❒	No ❒
2	Check cold weather starting aids (if applicable)	OK ❒	No ❒
3	Steam clean engine	OK ❒	No ❒
4	Check engine mounting bolts	OK ❒	No ❒
5	Check vibration dampener, engine	OK ❒	No ❒
6	Adjust overhead set	OK ❒	No ❒
7	Replace internal crankcase breather	OK ❒	No ❒
8	Check crankcase breather tube		

Every 10,000 Hours, or 5 Years

Perform these checks at 10,000 hours, or 5 years, whichever occurs first. Perform all previous maintenance procedures that are due for scheduled maintenance.

1	Replace belt driven fan hub	OK ❒	No ❒

* Normal drain period 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.

IMPORTANT: Consult the engine manufactures' Operation and Maintenance Manual for additional engine-related checks and/or details.

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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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