



## MTS Routine Maintenance

### Hydraulic Power Unit

#### Eligible HPU Models

- » Series 504
- » Series 505 [SilentFlo™]
- » Series 506
- » Series 507
- » Series 510
- » Series 515

Test equipment that is properly maintained will last longer and produce more reliable results than equipment that is neglected. Regularly scheduled maintenance performed by knowledgeable field service engineers will increase the likelihood of finding small issues before they become larger problems.

If hydraulic fluid is the lifeblood of your system, the HPU is the heart. Hundreds of gallons of fluid go through your pump each year, and it is important for system operation and energy consumption that the pump is working as efficiently as possible.

As the OEM of the hydraulic power unit, we know what to look for to keep the pump in top operating condition. On a

routine maintenance visit, some of the things we check are pump hours, operating temperature, accumulator pressure, observable fluid condition, hose condition cable connections and filter status. We charge accumulators and replace filters.

At the end of each routine maintenance visit, we'll provide a report of all services performed, current equipment condition and any recommendations, if necessary. You'll have the information you need to make decisions about your test equipment and confidence in knowing that you are able to address issues before they become problems. You'll also know that you are enhancing the productivity, reliability and longevity of your test equipment.

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Recommended service to be performed at each running time interval noted

Calendar Time Using 8 Hour Run Time Rate Per Day	Daily	Weekly	Biweekly	Annually					
	8	40	80	500	1,000	1,500	2,000	5,000	10,000
Check Console Ventilation	√								
Check Dirty Filter Indicators	√								
Check for Leaks	√								
Check Oil Level	√								
Check Pressure	√								
Check Fluid Color and Odor		√							
Check Interlock Devices		√							
Check Cables and Connectors			√						
Check Console Air Filter			√						
Check Accumulators for Proper Precharge Pressure and Oil				MTS	MTS	MTS	MTS		
Check Condition of Electrical Cables and Cable Connections				MTS	MTS	MTS	MTS		
Check Hydraulic Fluid Color and Odor				MTS	MTS	MTS	MTS		
Check Operating Pressure and Temperature				MTS	MTS	MTS	MTS		
Clean Control Cabinet Air Filter, Replace if Required				MTS	MTS	MTS	MTS		
Inspect Heat Exchanger for Leaks or "Flow (When Off)"				MTS	MTS	MTS	MTS		
Inspect Pump Hoses for Leaks				MTS	MTS	MTS	MTS		
Lubricate Motor Bearings (non 505)				MTS	MTS	MTS	MTS		
Verify Dirty Filter Indicators Status				MTS	MTS	MTS	MTS		
Verify Hydraulic Fluid Level				MTS	MTS	MTS	MTS		
Verify Warning and Interlock Devices				MTS	MTS	MTS	MTS		
Replace All Filters					MTS		MTS		
Verify Operation and Settings of psi Control and Relief Valves					MTS		MTS		
Check Pump/Motor Coupling for Wear and Debris							MTS		
Check Pump Voltage and Current							MTS		
Check Case Drain Flow							MTS		
Recommend MTS Fluid Care Oil Sample				MTS	MTS	MTS	MTS		
Recommend R/R Heat Exchanger								MTS	MTS
Recommend Replacement of Hoses									MTS
Recommend Replacement of Motor Bearings									MTS
Recommend Replacement or Rebuild of Pump									MTS
Recommend Replacement or Rewind of Motor									MTS
Recommend Hydraulic Fluid Change & Clean Pump Inlet Strainer									MTS

Note: MTS

Symbol denotes service performed by trained field service engineers as part of an MTS Routine Maintenance plan. Some of these procedures require special service tools and/or specific service training to complete.

Note: √

Symbol denotes services performed by equipment operators. Most of these procedures involve visual checks that should not interfere with test system operation. These checks are also completed by trained field service engineers on each Routine Maintenance visit.



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