



MTS Routine Maintenance

MTS Non-Torque Loading (NTL) System

Eligible NTL Systems

- » NTL 5
- » NTL 10

Your MTS Non-Torque Loading System helps you accurately simulate wind turbine operating environments to validate the performance of nacelle assemblies, drive train systems and bearing systems. It is critical that this complex, large-scale testing equipment is operating within specified parameters and delivering accurate test results. That's why it is important to invest in Routine Maintenance for your NTL system.

All test systems experience the normal wear and tear that can lead to unexpected downtime if they are not inspected and maintained on a regular basis. With MTS Routine Maintenance, you will be able to schedule maintenance events based on equipment use and when it is convenient for you, and you will minimize the chance of unexpected downtime that could interrupt your testing program and cause unnecessary delays. You will also extend the life of this valuable testing equipment by keeping it in proper operating condition.

With our defined service intervals, we can deliver all the recommended maintenance for your NTL 5 or NTL 10 system. At the end of each Routine Maintenance visit, you will receive a report that details the services performed, current operating condition and any future recommendations, if necessary. Regular maintenance records will help you observe equipment condition over time and proactively address changes in performance.

The maintenance activities are conducted by professionals who are trained specifically on what needs to be done for your NTL system, so you'll know that maintenance was done correctly the first time and consistently each time. As the equipment OEM, MTS has the knowledge, expertise and special tools required to optimize your NTL system performance.

be certain.

Recommended service to be performed at each running time interval noted

Calendar Time Using 8 Hour Run Time Rate Per Day Running Time - Hours	Daily 8	Weekly 40	Biweekly 80	160	500	1,000	1,500	Annually 2,000	5,000	10,000
Hydraulic Components (continued)										
HSM/HDS										
Check HSM for external fluid leaks/loose connections (especially around the accumulator connections)	✓									
Check dirty filter indicators (WinCC status screen)	✓					MTS				
Check and record HSM Accumulator Pressures (WinCC Status Screen)					✓					
Adjust HSM accumulator pressure					MTS					
Check low pressure setting					MTS					
Servovalves										
Replace 20 micron filter						MTS				
Check servovalve balance					MTS					
Sump Pump										
Check sump pump filter element, replace filter element (if dirty filter is indicated on the WinnCC software)	✓									
Observe and record sump pump flow		✓								
Replace sump pump filter (if filter has not been replaced in last 1000 hrs)						MTS				
NTL Frame Components										
NTL Fixture										
Check QMI oil mist CMU for "F2" fault code. Clean oil mist sensor lens as necessary	✓									
Check bellows drain pan, empty as required	✓									
Check environmental chamber bottom bellows		✓								
Check components for rust (externally)			✓							
Check components for rust (internally)						MTS				
High speed shaft (HSS) guards present					✓					
Check low speed shaft couplings						✓				
Evaluate NTL frame integrity								MTS		
Pneumatic Components										
Air Supply Assembly										
Drain water from air supply dessicant chamber		✓								
Check air supply dessicant level (refill as necessary)		✓								

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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.

Routine Maintenance package price does not include materials or consumables.

Routine Maintenance package price reflects the number of actuators and accumulators in the NTL system.



Learn more today

At MTS, not only do we design, develop and manufacture leading-edge test equipment, we spend each day helping our customers solve their most difficult testing and lab operation challenges through our service and support capabilities. With a service partner like MTS, you can maximize the performance of your equipment, lab and investments to reach your testing goals. Contact us today to optimize your testing operations with MTS service solutions.



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