



## MTS SilentFlo™ HPU Health Check

Easily assess hydraulic power unit performance

### Eligible Models

- » Model 505.07
- » Model 505.11
- » Model 505.20
- » Model 505.30
- » Model 505.60
- » Model 505.90
- » Model 505.120
- » Model 505.150
- » Model 505.180
- » Model 515.07
- » Model 515.11
- » Model 515.20
- » Model 515.30
- » Model 515.60
- » Model 515.90
- » Model 515.120
- » Model 515.150
- » Model 515.180

Mechanical equipment requires periodic checks to maintain optimal operation. Without these periodic checks, your hydraulic power unit (HPU) may become inefficient, incurring greater costs of operation and perhaps long-term damage to system components. Surprisingly, this loss of efficiency can happen without any warning signs or breakdowns.

Many factors can contribute to inefficiencies, including long hours of service, over-temperature issues, poor hydraulic fluid condition or cleanliness, inconsistent maintenance schedules and heat exchanger issues. To determine whether your HPU is operating at peak efficiency, MTS can provide a simple onsite assessment to check the health of your HPU and detect ways to improve performance.

With an MTS SilentFlo HPU Health Check, you receive professional diagnosis and analysis of your HPU's operating condition. By measuring things such as electrical current draw, hydraulic pressure, hydraulic flow, and fluid condition and cleanliness, MTS can determine current operational state and make recommendations for increasing efficiencies.

After the MTS SilentFlo HPU Health Check, you'll receive a detailed report regarding the health of your individual HPU modules, and the results from the optional MTS Fluid Analysis. Additionally, you'll receive actionable recommendations to improve the health of your HPU.

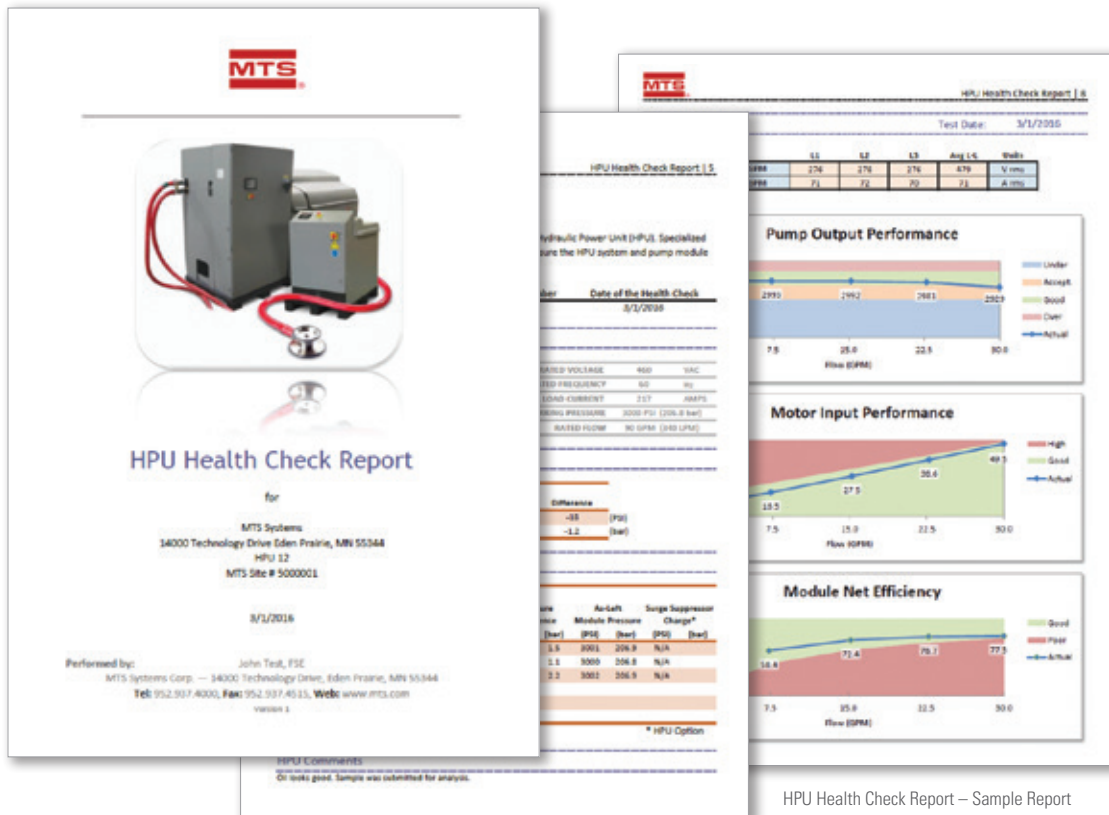
## HPU Diagnostic Tool

The diagnostic tool isolates the pump/motor module and checks hydraulic output at 0%, 25%, 50%, 75% and 100% rated flow, while monitoring motor electric power in order to measure the health of four important components:

- » Pump
- » Motor
- » Compensator Setting
- » Tuned Hose/Surge Suppressor Pre-Charge

The health of the module will be categorized as one of the following:

- » **Good:** Able to produce 100% rated flow at 203 bar (2950 psi) or higher
- » **Acceptable:** Able to produce 100% rated flow and hold pressure between 190 & 203 bar (2800 & 2950 psi)
- » **Worn:** Not able to produce 100% rated flow at minimum system pressure of 190 bar (2800 psi)



HPU Health Check Report – Sample Report



**MTS Systems Corporation**  
 14000 Technology Drive  
 Eden Prairie, MN 55344-2290 USA  
 Telephone: 1-952-937-4000  
 Toll Free: 1-800-328-2255  
 E-mail: info@mts.com  
 www.mts.com  
 ISO 9001 Certified QMS

MTS is a registered trademark and SilentFlo is a trademark of MTS Systems Corporation within the United States. These trademarks may be protected in other countries. RTM No. 211177.

© 2023 MTS Systems Corporation  
 100-306-522b SilentFloHealthCheck • Printed in U.S.A. • 12/23