Heavy-Duty Mobile Equipment Protection Systems
Certification Services

- Product differentiation via systems testing
- Global exposure with Approval Guide listing
- Streamlined process, saving time and costs
- Range of test programs to meet your needs

Differentiate Your Off-Road Vehicle Fire Protection System – Unique certification by FM Approvals, based on Approval Standard 5970, Heavy-Duty Mobile Equipment Protection Systems, provides one of the most comprehensive total-system performance standards for heavy-duty mobile equipment (HDME) fire protection systems.

Globally Recognized Mark – HDME systems certified by FM Approvals have passed demanding tests to determine their survival in the most challenging environments. FM Approved products are specified by buyers, engineers, designers and code authorities in markets around the world.

Wide Range of System Testing – We can accommodate a variety of product testing and certification needs: We are equipped to evaluate a broad range of HDME fire protection systems, including total flooding or local application, single or multiple suppressants, and either storage and delivery, detection and control, or combined detection, control, storage and delivery.

Global Support – Globally located offices make it easy to meet your needs locally. Get your local office contact information at fmapprovals.com.

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Heavy-Duty Mobile Equipment Protection Systems Certification Services

Gain a New Edge

Stand Out from the Competition:
The broad range and rigorous testing of HDME fire protection systems available through FM Approvals make the FM Diamond a certification mark of quality and performance for industrial loss prevention products. Now your HDME fire suppression system with the FM Approvals certification gives you clear advantage over your competitors.

Value-Added Service Saves Time and Cost: We work with customers to streamline their program, as a precursor to a certification program, to ensure their fire protection system meets the rigors of the HDME market and FM 5970—including demanding temperature ranges, shock and vibration, gravel bombardment, resistance to steam cleaning and pressure washing, electrostatic and electromagnetic immunity, corrosion resistance, and engine compartment fire tests. Rigorous testing is the basis of the FM Approvals certification and our global reputation for quality.

Loss Prevention Benefits...Everyone:
With over 130 years of experience in loss prevention research, standards development, product testing, certification and audit services, FM Approvals’ business aims to prevent losses from ever happening. That’s why FM Approved products are listed in the online Approval Guide and specified by insurers for major clients around the world. Gain exclusive access to this profitable market when you invest in the FM Diamond.

Approval Standards Spotlight

Approval Standard 5970, Heavy-Duty Mobile Equipment Protection Systems

Risk Profile
Fire involving heavy-duty mobile equipment (HDME) used in mining, forestry, energy, construction and material-handling industries continues to inflict multimillion dollar property and business interruption losses worldwide. In a recent 20-year period, one major insurer recorded 1,061 HDME losses totaling US$246 million. Fire accounted for nearly 40 percent of total losses. Large HDMEs can carry thousands of gallons of diesel fuel, hydraulic fluid and other ignitable liquids. These liquids flow through pressurized lines close to engines, transmissions, generators, pumps, electrical systems, conveyors and other potential ignition sources. An FM Approved HDME fire suppression system is a key way to reduce the risk of property loss and downtime.

Unique Methodology
Approval Standard 5970, Heavy-Duty Mobile Equipment Protection Systems, requires the examination of complete systems, which can include:
- complete HDME protection systems (detection, control, agent storage, delivery)
- suppressant storage and delivery system for HDME protection; or
- detection and control systems for HDME protection.

FM Approvals will coordinate appropriate testing based on individual system design. Depending on the system, evaluation under Approval Standard 5970 may include examination of physical or structural construction features, engine compartment fire tests, single-nozzle fire extinguishment tests, agent storage containers, material durability, vibration and shock resistance, and many other factors.

Contact us to learn more about the benefits of FM Approvals certification by emailing information@fmapprovals.com or calling your local office. Contact information can be found at fmapprovals.com.