



MSHS Custom 400kW Emergency/ Harbor Gen-Set Package

TYPE OF APPLICATION

400kW Emergency/ Harbor Gen-Set Package

EQUIPMENT UTILIZED

PRIME MOVER

MAN D2840 LE201

ALTERNATOR

CUMMINS-NEWAGE-STAMFORD HCM534F2

COUPLING

VULKAN VULASTIK L

MONITORING & SAFETY SYSTEM

BOENING

PRESSURE SENDERS

DANFOSS

SPEED PICK-UPS

NORIS

THERMOMETERS

PLOEGER

Custom-built Emergency Gen-Set Package

PROJECT OVERVIEW

Motor-Services Hugo Stamp, Inc. (MSHS) was commissioned to design and build a custom 400kW Emergency Harbor Gen-Set package. The customer's requirement included utilizing products similar to the equipment already installed on-board the vessel.

The MAN D2840 LE201 was chosen as the prime mover for the gen-set. The alternator CUMMINS-NEWAGE-STAMFORD HCM534F2 was coupled with a VULKAN VULASTIK L flexible coupling. The monitoring and safety system consisted of components from BOENING with a touchscreen human interface and DANFOSS pressure senders, pressure switches, NORIS speed pick-ups, and PLOEGER thermometers. The monitoring system is custom-designed and installed by MSHS. The AIRSEP System was chosen for improved air intake filtration and crankcase ventilation. Non-standard components were custom-designed and fabricated by **MSHS**.

The units installation point on the vessel required minimal to no vibration transmission to the vessel structure. The foundation and frame were designed as a two-raft system, with the assistance of SOUNDOWN and the customer's naval architect. SOUNDOWN performed the required calculations and supplied the corresponding vibration isolators.

The unit was developed and designed by **MSHS** using RHINO 3D drafting software. All design features were pre-visualized with the installation of the unit into the vessel mapped-out and shared with all parties for approval.

PROJECT OVERVIEW :

The final drawings were submitted to DNV-GL (Germanischer Lloyd) for Class Approval. After assembly at the MSHS facility in Fort Lauderdale, the unit was load-bank tested under supervision of DNV-GL and the customer.

ABOUT MSHS

Founded in 1983, **MSHS** provides turnkey solutions for the maritime and stationary power industries. Pursuit of engineering excellence and commitment to customer service has enabled **MSHS** to establish relationships with customers worldwide. **MSHS** continually meets customers' requirements through the rapid delivery of solutions, and competitive pricing. **MSHS** has dynamically established a strategy for continuous reinvestment in resources and infrastructure. This constant drive for modernization has enabled the company to maintain consistent competitive advantages in the maritime industry



Rendering of unit



Finish unit prior shipping to the customer on dummy mounts

Motor-Services Hugo Stamp, Inc. (MSHS) is the authorized distributor and service center for most of the world's major diesel engine and turbocharger manufacturers and is proud to operate under ISO 9001:2000 certification. Through innovative products and services, MSHS specializes in the testing, maintenance, repair, and overhaul of diesel engines, turbochargers, water jets, and filtration systems. Factory-trained service engineers and technicians are on 24-hour call providing everything from complete overhauls to laser alignment, engine diagnostics, and video inspections. MSHS maintains an extensive inventory of OEM parts.

FLORIDA/BAHAMAS: +1 954-763-3660 LOUISIANA: +1 504-265-8800
Toll Free: 800-622-6747 | www.mshs.com



MSHS
Motor-Services Hugo Stamp, Inc.
Authorized Distributor and Service Center