



# ORANGE FORCE MARINE

Our Fleet

Orange Apex



[www.orangeforcemarine.com](http://www.orangeforcemarine.com)



# ORANGE FORCE MARINE

## Orange Apex

### Overview & Key Features

**Name:** M/V "Orange Apex"  
**Official Number:** 841271  
**Call Sign:** VCA2068  
**MMSI:** 316036365  
**Port of Registry:** Sarnia, ON  
**Built:** Porchester, UK Fairey Brooke Marine Ltd. 1988  
**Material:** Aluminum Hull and Superstructure

### Specifications

**Length:** 11.57 meters (38 ft)  
**Beam:** 3.8 meters (12.5 ft)  
**Draft:** 1.0 meters (3.4 ft)  
**Gross Tonnage:** 18.29 GT  
**Registered Tonnage:** 14.99 GT

### Propulsion Characteristics

**Main Engines:** 2 x CAT Marine Diesel Engines, Model 3208T providing 418kW (560 hp)  
**Propellers:** Twin shaft lines driving fixed pitch propellers in thrust tunnels  
**Rudders:** Twin hydraulically controlled rudders

### Speed & Fuel Consumption

**Total Internal Fuel Capacity:** 1100 Litres (2 x 550 Litre Fuel Tanks)

Speed	Consumption Rate	Range	Endurance
17.5 kts (Maximum)	125 L/hr	150 NM	8 hrs
14 kts (Cruise)	82 L/hr	185 NM	13 hrs
12 kts (Economical)	65 L/hr	200 NM	17 hrs
5 kts (Survey)	13 L/hr	610 NM	82 hrs

### Safety

**EPIRB:** McMurdo Smartfind E5 - Auto Float Free  
**Flares:** 6 x Handheld, 6 x Parachute, 3 x Orange Smoke  
**Liferaft:** 1 x 12 person Survitec Life Raft, hydrostatically released

#### Firefighting equipment:

Pyrogen engine room & fuel tank space extinguishing system,  
 30ft Fire Hose, engine driven fire pump,  
 5 x CO2 fire extinguishers  
 Safety Management System (SMS) with Safety Plan & Procedures

### Electrical

**Production:** 12 V/150A DC Alternators (one per main engine)  
**Storage:** Service & Engine Starting battery banks (4 x Marine Deep Cycle / bank)  
**Distribution:** 12V & 24V Panels, 120V/15A available in Wheel house

### Navigation Equipment

**Electronic Chart System:** OSI ECPINS-W  
**Radar:** Furuno DRS6A-XN12A Model, 4 ft open array, X Band  
**AIS:** Furuno FA-50, Class B transponder  
**DGPS:** CSI Wireless MBX-3S  
**GPS Navigation 1:** Magnavox MX200  
**GPS Navigation 2:** Northstar 952XD  
**Depth Sounder:** Furuno FCV-600L  
**Speed Log:** Raymarine ST-50  
**Gyro:** KVH Gyro Compass (with Helm & Flybridge repeaters)  
**Wind Indicator:** Furuno FL-5001 transducer  
**Searchlights:** Dual, ship powered, search lights

### Communications

**Marine VHF Radio:** 2 x Sailor RT2048 VHF-DSC  
**Handheld VHF Radio:** 3 x Handheld, 5W  
**MF/HF Radio:** Sailor RE2022/31 SSB GMDSS compatible  
**VHF Direction Finder:** Taiyo TD-L1520  
**Audible:** Ship's Whistle, Loudhailer & Horns





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### Deck Equipment & Features

- A-Frame Crane:** 1000 lbs WLL, 6 ft Height, 3 ft width, 3 ft transom extension (@ 25 degrees)
- Manual Davit Crane:** 500 lbs WLL, 6 ft Height, 4 ft side reach, 30 ft of webbing on manual reel, mounts on both sides
- Multi-Beam Pole Mount:** Stbd Side, Mid-deck footing for pole support
- Anchor:** 2 x 20 kg Delta Anchors, 30m anchor line and chain
- Capstan:** 5 Ton rated Anchor / Line Handling Capstan
- Towing Posts:** 2 x 25 Ton rated Towing Posts Fwd & Aft



### Accommodations

- Maximum Total Complement:** 12 persons (2 x Crew, 10 x Passengers)
- Galley:** Mini-facilities in Wheelhouse (via portable appliances)
- Fresh Water Capacity:** 200 Litres
- Onboard Marine Head**



### Applications Served

- Hydrographic and Bathymetric Survey
- Marine Scientific Research and Ocean Technology
- Marine Training
- Underwater Operations
- Diving Operations
- Offshore Energy (Oil & Gas, Wind)
- Marine Salvage
- Environmental Response
- Support to Government Agencies
- Marine Consulting, Operations and Project Management
- Light, Specialized or Dangerous Cargo Transport
- Specialized or Private Charter



